

Bulletin of the
UNIVERSITY OF VERMONT
AND STATE AGRICULTURAL COLLEGE
===== BURLINGTON, VERMONT



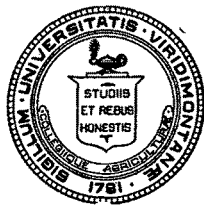
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1942

One Hundred Fifty-First Year

CATALOGUE NUMBER 1941-1942
VOLUME XXXIX NUMBER 3
WITH ANNOUNCEMENTS FOR 1942-1943

❧ BULLETIN OF THE ❧
UNIVERSITY OF VERMONT
AND STATE AGRICULTURAL COLLEGE
BURLINGTON - - - - - VERMONT
VOLUME XXXIX — MARCH, 1942 — NUMBER 3



THE CATALOGUE 1941-1942
ANNOUNCEMENTS 1942-1943

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Calendar

1942

JANUARY

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UNIVERSITY CALENDAR

1942

Saturday, January 24, 7.30 a.m.	Class Work of the Second Semester begins.
Saturday, February 21	Kake Walk.
Friday, March 13, and Saturday, March 14	Educational Conference with Vermont Teachers.
Friday, April 3 to Monday, April 6, 7.30 a.m.	Easter Recess.
Friday, May 1	Founder's Day.
Monday, May 11 through Friday, May 15	Final Examinations.
Monday, May 18	Commencement.

Summer Quarter

Monday, June 1	Registration.
Tuesday, June 2	Class Work begins.
Saturday, July 4	University Holiday.
Tuesday, August 18	Last Day of Classes.
Wednesday, Thursday, and Friday, August 19, 20, and 21	Final Examinations.
Monday, August 24	Commencement.

The Academic Year, 1942-1943

Friday, September 11, to Monday, September 14	Entrance Examinations.
Tuesday, September 15	Freshman Registration.
Wednesday, September 16	Opening University Convocation, President's Address, Registration and Enrollment of Former Students. Freshman Preliminary Conferences.
Thursday, September 17	Preliminary Instruction for Freshmen; Registration.
Friday, September 18, 7.30 a.m.	Class Work of the First Semester begins.
Saturday, September 26	Registration for the year closes.
Thursday, October 1	Closing date for change of studies.
Thursday, November 26	Thanksgiving Day, University Holi- day.
Saturday, December 19, 11.30 a.m. to Monday, January 4, 7.30 a.m.	Christmas Recess.

University Calendar

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- Thursday, January 14, to
Tuesday, January 19Mid-Year Examinations in the Academic Colleges.
- Wednesday, January 20Payment of Fees; Enrollment for the Second Semester.
- Thursday, January 21Class Work of the Second Semester begins.
- Saturday, February 20Kake Walk.
- Friday, March 12, and
Saturday, March 13Educational Conference with Vermont Teachers.
- Thursday, April 1, 7.30 a.m. to
Monday, April 5, 7.30 a.m.Spring Recess.
- Saturday, May 8, to
Thursday, May 13Final Examinations in the Academic Colleges.
- Friday, May 14, to
Monday, May 17The Events of the Annual Commencement Week, the 152nd year of the University.

Announcement of Summer Quarter

June 1 to August 24, 1942

The University of Vermont is making every effort to give utmost service to the nation in training men both for the armed service and for the necessary similar activities. In common with most educational institutions, the University is operating an accelerated program which will enable the student who so desires, through attendance at two summer sessions, to complete four years of academic work in three calendar years. The accelerated program further gives most students an opportunity to complete work for the college degree prior to being called by the selective service.

All engineering and pre-medical students will be expected to attend the Summer Quarter. Pre-medical students must attend if they wish to enter Medical College at the earliest possible date. This accelerated program, however, does not give opportunity for students who have failed a course or courses to make up their deficiency and such students will be obliged to have a longer period of preparation before the beginning of their medical work.

Others may shorten the time required for graduation by one or two semesters by attending one or two summer quarters and planning their work carefully. The University wishes to arrange Summer Quarter work, and work in the regular session, in such a manner as to make this possible. A student may in the Summer Quarter acquire 12 semester hours of credit, but enrollment in more than 12 hours will not be permitted except in very exceptional cases and only with the Dean's approval. In general, a student may take two full year courses of 6 semester hours each or the equivalent number of half courses.

Entering Freshmen will not enroll for the Summer Quarter, but will enroll as usual in September. Transfer students who are entering with advanced standing may attend the Summer Quarter.

Special Notice

The Navy V-1 Program

The attention of men interested in entering the Navy after the completion of all or a part of their college course is called to the Naval V-1 Program. Students who wish to enroll in this Program may enlist as apprentice seamen and take either a special curriculum in the Arts College or one of the Engineering curricula. If they continue in good academic standing they are permitted to complete at least two years of college. The second semester of the sophomore year such men take an objective examination set by the Navy Department and testing "skill in swift, accurate, mathematical computation and in the solution of problems with elementary algebra, plane geometry and plane trigonometry and skill in handling problems of general college physics."

Men rating high on this test will be permitted to finish the college course at the end of which they will be transferred to a Navy School for training of Ensigns. Others will be chosen for Aviation Cadet Training while the remainder will be taken into the Navy at the completion of the sophomore year as apprentice seamen.

The Navy Department has approved the University of Vermont as an institution qualified to give university work to men enrolled in V-1 and students who have matriculated at the University may register for it.

It appears from the above that men enlisting under this program whose academic work is satisfactory will be permitted to finish at least two and possibly four years of college work.

Any students interested in enrolling in V-1 may obtain further information by writing the Dean of the College of Arts and Sciences.

Administration

THE BOARD OF TRUSTEES

THE UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE

JOHN SCHOFF MILLIS, B.S., M.S., Ph.D.

His Excellency

WILLIAM HENRY WILLS, LL.D.

President

Governor

Ex-Officio

ON THE PART OF THE UNIVERSITY OF VERMONT

Elected

1910 *NEWMAN KEYES CHAFFEE, A.B.

Rutland, Vt.

1935 *GEORGE WILLIAM ALGER, A.B.

55 Liberty St., New York, N. Y.

1936 *CARROLL WARREN DOTEN, A.M.

Brandon, Vt.

1937 *HENRY BIGELOW OATLEY, B.S.

33 Arleigh Rd., Great Neck, L. I., N. Y.

1938 *CASSIUS REUBEN PECK, A.B.

6430 S.W. Parkhill Way, Portland, Ore.

1939 *WILLARD ALVORD MITCHELL, A.B.

141 Broadway, New York, N. Y.

1941 WALTER ALDEN DANE, A.B.

73 Tremont St., Boston, Mass.

1941 FRANK EMERSON FARMER, M.D.

St. Johnsbury, Vt.

1941 JOSEPH BLAINE JOHNSON, B.S.

Springfield, Vt.

1941 ARTHUR HENRY KEHOE, B.S.

4 Irving Pl., New York, N. Y.

1941 †JAMES HOWARD MOORE, B.S.

9 East 38th St., New York, N. Y.

1941 HORACE HENRY POWERS, Ph.B.

St. Albans, Vt.

* Resigned August 16, 1941.

† Resigned November 1, 1941.

- 1941 FREDERICK WAYNE SHEPARDSON, B.S.
Burlington, Vt.
- 1941 LEVI PEASE SMITH, A.B.
Burlington, Vt.
- 1941 IRA MUNN BOARDMAN, B.S.
Burlington, Vt.
- 1941 MAURICE LESLIE KELLEY
Barre, Vt.

ON THE PART OF THE STATE AGRICULTURAL COLLEGE

- | | | |
|--|---|-----------|
| 1917 *EDWIN WINSHIP LAWRENCE, A.B.
Rutland, Vt. | } | 1937-1943 |
| 1919 *HENRY MOSES McFARLAND, A.B.
Hyde Park, Vt. | | |
| 1941 ASA SCHOONMACKER BLOOMER, Ph.B.
West Rutland, Vt. | | |
| 1941 SMITH SEELEY REYNOLDS
Middlebury, Vt. | | |
| 1941 JAMES HERVEY MACOMBER, JR., A.B.
Burlington, Vt. | | |
| 1914 *WARREN ROBINSON AUSTIN, Ph.B., LL.D.
Burlington, Vt. | } | 1939-1945 |
| 1927 *ROY LEONARD PATRICK, Ph.B.
Burlington, Vt. | | |
| 1937 DONALD ARTHUR HEMENWAY, B.S.
131 Brace Rd., West Hartford, Conn. | | |
| 1941 WALLACE MACFIE FAY
Proctor, Vt. | | |
| 1941 CLEON ARTHUR PERKINS, B.S.
Rutland, Vt. | | |
| 1933 *GUY MILTON PAGE, A.B., LL.B.
Burlington, Vt. | } | 1941-1947 |
| 1929 THOMAS CHARLES CHENEY, A.B.
Morrisville, Vt. | | |
| 1939 WILLIAM CHESTER WALKER, Ph.B.
Cabot, Vt. | | |
| 1941 JAMES EDWARD MANAHAN
St. Albans, Vt. | | |

* Resigned September 16, 1941.

Secretary of the Board

FORREST WILKINS KEHOE, B.S.

Committees of the Board

*Executive*JOHN S. MILLIS
THOMAS C. CHENEY
ASA S. BLOOMERHORACE H. POWERS
FREDERICK W. SHEPARDSON
J. HERVEY MACOMBER, JR.*Finance*CLEON A. PERKINS
WALLACE M. FAYARTHUR H. KEHOE
ACTING COMPTROLLER OF
THE UNIVERSITY*Auditors*

DONALD A. HEMENWAY

JAMES E. MANAHAN

The Vermont Agricultural Experiment Station

*The Board of Control*JOHN S. MILLIS
THOMAS C. CHENEY
ASA S. BLOOMERHORACE H. POWERS
FREDERICK W. SHEPARDSON
J. HERVEY MACOMBER, JR.

OFFICE HOURS

The Administrative Offices

The offices of the PRESIDENT, the ASSISTANT TO THE PRESIDENT, the ASSISTANT COMPTROLLER, the REGISTRAR, the DIRECTOR OF ADMISSIONS, and the BUSINESS OFFICES are on the main floor of the Waterman Building and are open from 9.00 a.m. to 5.00 p.m.; Saturdays 9.00 to 12.00.

The Deans' Offices

These offices are open from 9.00 a.m. to 5.00 p.m.; Saturday, 9.00 to 12.00.

THE DEAN OF THE COLLEGE OF ARTS AND SCIENCES, Waterman Building.

THE DEAN OF THE COLLEGE OF ENGINEERING, Waterman Building.

THE DEAN OF THE COLLEGE OF AGRICULTURE, Morrill Hall.

THE DEAN OF WOMEN, Waterman Building.

THE DEAN OF THE COLLEGE OF MEDICINE, Medical Building, Room 6.

The Military Department

THE COMMANDANT, the Armory, Gymnasium Building—7.30 to 12.00 and from 2.00 to 5.00; Saturday, 7.30 to 12.00.

The Alumni Council

SECRETARY OF THE COUNCIL, Waterman Building—9.00 a.m. to 5.00 p.m.; Saturday, 9.00 to 12.00.

The Robert Hull Fleming Museum

This building is open to the public, throughout the year, each day from 2.00 to 5.00 p.m. During July, August and September the hours are 9.00 to 12.00 and 2.00 to 5.00.

OFFICERS OF INSTRUCTION

Deans and Professors

(Arranged in order of seniority in the several academic grades)

JOHN SCHOFF MILLIS, B.S., M.S., Ph.D. President of the University	204 S. Willard St.
*NEWMAN KEYES CHAFFEE, A.B. Acting President	
†PAUL C. PACKER, Ph.D. Temporary President	
JOSEPH LAWRENCE HILLS, B.S., Sc.D. Dean of the College of Agriculture	59 N. Prospect St.
ELIJAH SWIFT, Ph.D. Dean of the College of Arts and Sciences and Williams Professor of Mathematics	415 S. Willard St.
GEORGE FREDERICK ECKHARD, B.S., C.E. Dean of the College of Engineering and Professor of Structural Engineering	178 Summit St.
CLARENCE HENRY BEECHER, M.D. Dean of the College of Medicine and Professor of Medicine	151 Robinson Pkwy.
‡HARDY ALFRED KEMP, B.S., M.D. Dean of the College of Medicine and Professor of Preventive Medicine	
FREDERICK TUPPER, Ph.D., L.H.D., Litt.D. Professor of the English Language and Literature	179 N. Prospect St.
JOHN BROOKS WHEELER, A.B., M.D., Sc.D. Professor Emeritus of Surgery	210 Pearl St.

* Resigned August 16, 1941.

† Appointed for two months September 1 to November 1, 1941.

‡ Resigned September 1, 1941.

ELBRIDGE CHURCHILL JACOBS, A.M. Professor of Geology and Mineralogy; Curator of the Geological and Mineralogical Collections. In charge of the Seismograph Station	146 Williams St.
ARTHUR BECKWITH MYRICK, Ph.D. Professor of Romance Languages and Literatures	146 Summit St.
BERTHA MARY TERRILL, A.M., Sc.D. Professor Emeritus of Home Economics	205 S. Prospect St.
ASA RUSSELL GIFFORD, A.M. Professor of Intellectual and Moral Philosophy	119 N. Prospect St.
MARSHALL BAXTER CUMMINGS, Ph.D. Professor of Horticulture and Secretary of the Faculty of the College of Agriculture	230 Loomis St.
BENJAMIN FRANKLIN LUTMAN, Ph.D. Professor of Plant Pathology	111 N. Prospect St.
GEORGE PLUMER BURNS, Ph.D. Assistant Dean of the College of Agriculture and Professor of Botany	453 S. Willard St.
THOMAS STEPHEN BROWN, M.D. Thayer Professor Emeritus of Anatomy; Professor of Medical Ethics and Medical Relationships; Superintendent of the Mary Fletcher Hospital	419 S. Prospect St.
FRED KINNEY JACKSON, M.D. Professor Emeritus of Physiology in the College of Medicine	466 S. Prospect St.
DAVID MARVIN, M.D. Professor Emeritus of Pharmacology	Essex Junction
HENRY FARNHAM PERKINS, Ph.D. Professor of Zoology; Director of the Robert Hull Fleming Museum	205 S. Prospect St.
GEORGE GORHAM GROAT, Ph.D. Professor of Economics	475 Main St.
EVAN THOMAS, B.S., D.Ed. Professor Emeritus of Mathematics and Mechanics in the College of Engineering	40 Robinson Pkwy.
*GEORGE HOWARD BURROWS, Ph.D. Pomeroy Professor of Chemistry	
CHARLES FLAGG WHITNEY, M.D. Professor Emeritus of Physiological Chemistry and Toxicology in the College of Medicine	19 Kingsland Ter.
HOWARD BOWMAN ELLENBERGER, Ph.D. Professor of Animal and Dairy Husbandry	55 Robinson Pkwy.
FRED DONALD CARPENTER, Ph.D. Professor of the German Language and Literature	28 Kingsland Ter.
CHARLES FRANCIS DALTON, M.D. Professor Emeritus of Public Health	439 S. Willard St.
CHARLES KIMBALL JOHNSON, M.D. Professor Emeritus of Pediatrics	41 Henderson Ter.
BENNETT COOPER DOUGLASS, Ph.D. Professor of Education and Director of the Summer Session	122 Summit St.

* Absent on leave, 1941-1942.

Officers of Instruction

15

<p>ERNEST HIRAM BUTTLES, M.D. Professor of Pathology and Bacteriology; Secretary of the Faculty of the College of Medicine</p>	<p>457 S. Willard St.</p>
<p>ARTHUR DEXTER BUTTERFIELD, D.Eng. Professor of Mathematics and Geodesy</p>	<p>25 Colchester Ave.</p>
<p>LYMAN ALLEN, M.D. Professor of Surgery</p>	<p>278 Main St.</p>
<p>HOWARD GORDON BENNETT, A.J. Professor of Music</p>	<p>448 S. Prospect St.</p>
<p>JAMES CHARLES O'NEIL, M.D. Professor of Psychiatry</p>	<p>Waterbury</p>
<p>LESTER MARSH PRINDLE, Ph.D. Professor of Classical Languages and Literatures</p>	<p>380 Maple St.</p>
<p>*MASON HERBERT CAMPBELL, Ph.D. Professor of Dairy Production</p>	
<p>JAMES ATKINS BULLARD, Ph.D. Professor of Mechanics and Mathematics; Secretary of the Faculty of the College of Engineering</p>	<p>110 Summit St.</p>
<p>PAUL DEMUND EVANS, Ph.D. Professor of History</p>	<p>261 S. Prospect St.</p>
<p>GEORGE MILLAR SABIN, M.D. Professor Emeritus of Clinical Surgery</p>	<p>28 Overlake Pk.</p>
<p>PAUL ROBERT MILLER, M.S. Professor of Agronomy</p>	<p>45 Robinson Pkwy.</p>
<p>LOUIS BLACKMER PUFFER, C.E. Professor of Civil Engineering</p>	<p>176 Loomis St.</p>
<p>†RALPH MAYNARD HOLMES, Ph.D. Professor of Physics</p>	<p>Spear St.</p>
<p>EDD RUTHVEN MCKEE, M.S., E.E. Professor of Electrical Engineering</p>	<p>42 Henderson Ter.</p>
<p>‡MERRILL ELLICOTT SPALDING, B.S. Colonel, Infantry, U. S. Army Professor of Military Science and Tactics</p>	
<p>ARTHUR BRADLEY SOULE, JR., M.D. Assistant Dean of the College of Medicine and Professor of Radiology</p>	<p>144 Ledge Rd.</p>
<p>HOVEY JORDAN, M.S., A.M. Professor of Histology and Embryology</p>	<p>449 S. Prospect St.</p>
<p>EMMUS GEORGE TWITCHELL, M.D. Professor of Ophthalmology, Otolaryngology and Rhinology</p>	<p>88 S. Willard St.</p>
<p>HERBERT ASHLEY DURFEE, M.D. Professor of Obstetrics</p>	<p>347 S. Union St.</p>
<p>OLIVER NEWELL EASTMAN, M.D. Professor of Gynecology</p>	<p>170 Spruce St.</p>

* Absent on leave, 1941-1942.

† Absent on leave, second semester, 1941-1942 (war service).

‡ Transferred August 27, 1941.

JOHN TRUMBULL METCALF, Ph. D. Professor of Psychology	35 Kingsland Ter.
HAROLD BARNARD PIERCE, Ph.D. Professor of Physiological Chemistry in the College of Medicine	360 College St.
DANIEL BERNARD CARROLL, Ph.D. Professor of Political Science	460 S. Prospect St.
HARRY LAWRENCE DAASCH, M.E. Professor of Mechanical Engineering	89 Ledge Rd.
ERNEST OLIVER HERREID, Ph.D. Professor of Dairy Manufacturing	St. George (Burlington, R. F. D. 2)
HOWARD ANDERSON PRENTICE, Ed.D. Professor of Physical Education for Men and Director of Athletics	132 Spruce St.
WILLIAM GRAVES TOWNSEND, M.D. Professor of Urology	32 Cliff St.
EUGENE FREDERICK TRAUB, M.D. Visiting Professor of Dermatology	140 E. 54th St. New York, N. Y.
ADOLPHUS DUNCAN ROOD, M.D. Visiting Professor of Bronchoscopy	146 Chestnut St. Springfield, Mass.
FLORANCE BEESON KING, Ph.D. Professor of Home Economics	371 Pearl St.
HARRY GAGE WYER, M.D. Major, Medical Corps, U. S. Army (Retired) Professor of Medico-Military Science	71 Williams St.
GEORGE FREDERICK NEY DAILEY, B.S. Colonel, Infantry, U. S. Army Professor of Military Science and Tactics	50 Ledge Rd.

Associate Professors

WELLINGTON ESTEY AIKEN, A.M. Associate Professor of English; Secretary of the University Senate	52 N. Prospect St.
ROY ORVILLE BUCHANAN, B.S. Associate Professor of Electrical Engineering	23 Hillcrest Rd.
JOHN BELLOWS DeFOREST, Ph.D. Associate Professor of Romance Languages	327 S. Prospect St.
GEORGE DYKHUIZEN, Ph.D. Associate Professor of Philosophy	350 S. Prospect St.
JULIAN IRA LINDSAY, A.M. Associate Professor of English	292 S. Prospect St.
GEORGE VINCENT KIDDER, Ph.D. Associate Professor of Classical Languages and Literatures; Secretary of the Faculty of the College of Arts and Sciences	206 Summit St.
LELAND LAWRENCE BRIGGS, M.B.A. Associate Professor of Economics	13 Bay View St.

Officers of Instruction

17

ELEANOR STENSON CUMMINGS, A.B. Associate Professor of Physical Education for Women	153 S. Prospect St.
*CHARLES ALLEN KERN, B.S. Associate Professor of Chemistry	74 S. Winooski Ave.
ELEAZER JOHNSON DOLE, Ph.D. Associate Professor of Botany	433 S. Prospect St.
PAUL KENDRICK FRENCH, Ph.B., M.D. Associate Professor of Clinical Medicine	223 Pearl St.
PAUL AMOS MOODY, Ph.D. Associate Professor of Zoology	197 Howard St.
CHARLES ERNEST BRAUN, Ph.D. Associate Professor of Organic Chemistry	173 DeForest Rd.
PERCY AUSTIN FRALEIGH, Ph.D. Associate Professor of Mathematics	160 Shelburne St.
FLORENCE MAY WOODARD, Ph.D. Associate Professor of Economics	475 Main St.
EDMUND LOUIS SUSSDORFF, M.E. Associate Professor of Mechanical Engineering	357 S. Prospect St.
†RAY GILBERT DAGGS, Ph.D. Associate Professor of Physiology in the College of Medicine	29 Adsit Ct.
WILLIAM RITCHIE ADAMS, Ph.D. Associate Professor of Forestry and Botany	36 Overlake Pk.
ALEXANDER GERSHOY, Ph.D. Associate Professor of Botany	421 North St.
PARKER BROWN WILLIS, Ph.D. Associate Professor of Economics	301 College St.
JOHN ALVIN NEULANDER, Ph.D. Associate Professor of Dairy Husbandry	45 University Ter.
CATHERINE FRANCES NULTY, Ed.M. Associate Professor of Economics (Secretarial)	9 S. Union St.
BIRD JOSEPH ARTHUR BOMBARD, M.D. Associate Professor of Clinical Surgery	24 Orchard Ter.
LYMAN SMITH ROWELL, M.S. Associate Professor of Zoology	38 Cliff St.
HERBERT EVERETT PUTNAM, Ph.D. Associate Professor of History	187 Loomis St.
ELLSWORTH LYMAN AMIDON, M.D. Associate Professor of Medicine	144 DeForest Rd.
ALBERT GEORGE MACKAY, M.D. Associate Professor of Surgery	120 Ledge Rd.
WENDELL EVERETT JAMES, M.D. Associate Professor of Clinical Pathology and Bacteriology	12 Handy Ct.

* Absent on leave, 1941-1942. Deceased February 17, 1942.

† Absent on leave, November 13, 1941 to November 13, 1942 (war service).

MAURICE NORBERT BELLEROSE, M.D. Associate Professor of Orthopedic Surgery	Rutland
NELSON LEE WALBRIDGE, M.S. Associate Professor of Physics	1334 North Ave.

Assistant Professors

HAROLD IRVING WILLIAMS, B.S. Assistant Professor of Electrical Engineering	34 Elmwood Ave.
AMOS BUSH WILLMARTH, A.M., M.S. Assistant Professor of Chemistry	33 Buell St.
GENNETTE CLAIRE DAVIS, A.M. Assistant Professor of Economics (Secretarial)	151 S. Prospect St.
HOWARD GUY MILLINGTON, C.E. Assistant Professor of Mathematics in the College of Engineering	225 Plattsburg Ave.
ROBERT LELAND MAYNARD, M.D. Assistant Professor of Orthopedic Surgery	289 College St.
FLORENCE EMILY BAILEY, M.S. Assistant Professor of Home Economics	54 S. Willard St.
*FRED WALTER HOUSEHOLDER, A.M. Assistant Professor of Mathematics	15 Wilson St.
SARA MOULTHROP HOLBROOK, A.M. Assistant Professor of Education	343 S. Prospect St.
JAMES EUGENE POOLEY, A.M. Assistant Professor of Classical Languages and History	9 Handy Ct.
GRACE BURWASH, A.M. Assistant Professor of Home Economics	151 S. Prospect St.
BENJAMIN FRANKLIN LADD, A.M. Assistant Professor of German	295 Maple St.
†ALIDA BEATRICE FAIRBANKS, A.M. Assistant Professor of Home Economics	
GENO BLAISE LUCARINI, B.S. Assistant Professor of Mechanical Engineering	324 Main St.
EDWARD JAMES ROGERS, M.D. Assistant Professor of Clinical Medicine	Pittsford
LLOYD ABRAM WOODWARD, M.S. Assistant Professor of Physics	82 Henry St.
LEON W. DEAN, A.B. Assistant Professor of English	308 S. Prospect St.
WALFORD TUPPER REES, M.D. Assistant Professor of Surgery	223 Pearl St.

* Absent on leave, 1941-1942 (defense work).

† Resigned November 1, 1941.

Officers of Instruction

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BENJAMIN DYER ADAMS, M.D. Assistant Professor of Surgery	207 S. Union St.
RAYMOND AVERY HALL, A.M. Assistant Professor of English	Charlotte
GEORGE HUBERT NICHOLSON, A.M. Assistant Professor of Mathematics	33 Prospect Hill
CHARLES PERKINS MOAT, B.S. Assistant Professor Emeritus of Public Health	487 S. Willard St.
ROLAND FREEMAN DOANE, A.M. Assistant Professor of Romance Languages	4 Cedar Lane
BENJAMIN BOOTH WAINWRIGHT, A.M. Assistant Professor of English	116 Main St.
CHESTER ALBERT NEWHALL, M.D. Assistant Professor of Anatomy	72 Colchester Ave.
MYRON ELLIS WITHAM, C.E. Assistant Professor of Mathematics	41 S. Prospect St.
ELIZABETH VANDERPOOL COLBURN, A.M. Assistant Professor of Education (Art)	335 S. Union St.
LAURENCE FORREST SHOREY, M.S. Assistant Professor of Electrical Engineering	60 University Ter.
CHARLES GEORGE DOLL, A.M. Assistant Professor of Geology and Mineralogy; Assistant Curator of the Geological Collections	31 S. Prospect St.
MILTON HARRIS ALDRICH, M.S.E. Assistant Professor of Civil Engineering	505 North St.
EDGAR ELWYN LINEKEN, Ph.D. Assistant Professor of Chemistry	4 Scarff Ave.
*MELVIN HENRY LAATSCH, A.M. Assistant Professor of Political Science	
PHILLIPS DEAN CARLETON, A.M. Assistant Professor of English	236 S. Prospect St.
ARCHIBALD THOMSON POST, B.S. Assistant Professor of Physical Education for Men	114 Ferguson Ave.
WILLARD BISSELL POPE, Ph.D. Assistant Professor of English	100 Overlake Pk.
KARL CORNELIUS McMAHON, M.D. Assistant Professor of Ophthalmology and Clinical Instructor in Otolaryngology and Rhinology	381 S. Union St.
ARTHUR LEO LARNER, M.D. Assistant Professor of Otolaryngology and Rhinology, and Clinical Instructor in Ophthalmology	337 College St.
EDWARD DOUGLAS McSWEENEY, M.D. Assistant Professor of Gynecology	28 S. Willard St.

* Absent on leave, 1941-1942.

PAUL WILLIAM BUTTERFIELD, M.D. Assistant Professor of Pathology	37 N. Prospect St.
REX MADISON COLLIER, Ph.D. Assistant Professor of Psychology	43 Prospect Hill
JOHN ARCHIBALD FERGUSON, M.D. Assistant Professor of Pathology	54 Greene St.
WALTER ALVA STULTZ, Ph.D. Assistant Professor of Anatomy	16 Prospect Hill
RANDOLPH SHEPARDSON TOWNE, A.M. Assistant Professor of Romance Languages	448 S. Union St.
HIRAM EUGENE UPTON, M.D. Assistant Professor of Clinical Medicine	124 Spruce St.
KEITH FRANK TRUAX, M.D. Assistant Professor of Surgery	284 S. Union St.
WILLIAM LAWRENCE GARDNER, B.S. Assistant Professor of Physical Education for Men and Associate Director of Athletics	17 Overlake Pk.
*RALPH LESLIE CUDLIPP, M.D. Lieut.-Col. Medical Corps, U. S. Army Assistant Professor of Clinical Surgery	Fort Ethan Allen
CLIFFORD SHATTUCK LEONARD, Ph.D. Assistant Professor of Pharmacology	31 Cliff St.
FRED WILLIAMS DUNIHUE, Ph.D. Assistant Professor of Histology and Embryology in the College of Medicine	14 Handy Ct.
MRS. NELLE ALEXANDER ADAMS, A.M. Assistant Professor of Education	36 Overlake Pk.
*GEORGE CHAPMAN CROOKS, Ph.D. Assistant Professor of Chemistry	Spear St.
PAUL DENNISON CLARK, M.D. Assistant Professor of Pediatrics	400 S. Willard St.
LOUIS BENSON, M.D. Assistant Professor of Preventive Medicine	Pittsford
ROY EDWARD CORLEY, M.D. Assistant Professor of Pediatrics	65 Pine St.
†JOHN EMERSON DAVIS, Ph.D. Assistant Professor of Pharmacology	
AYMER SETH COLUMBUS HILL, M.D. Assistant Professor of Clinical Medicine	12 Weston St.
ARTHUR FORD GEDDES EDGELOW, M.D. Assistant Professor of Clinical Obstetrics	21 Maple St. Springfield, Mass.
ARTHUR RUSH HOGAN, M.D. Assistant Professor of Clinical Surgery	8 S. Willard St.

* Absent on leave, 1941-1942 (war service).

† Resigned January 1, 1942.

Officers of Instruction

21

PETER PAUL LAWLOR, M.D. Assistant Professor of Otolaryngology and Rhinology and Clinical Instructor in Ophthalmology	118 Ledge Rd.
WILHELM RAAB, M.D. Assistant Professor of Clinical Medicine	130 Robinson Pkwy.
FERDINAND JACOB MORRIS SICHEL, Ph.D. Assistant Professor of Physiology	34 Henderson Ter.
WILLIAM BRADFORD ADAMS, M.D. Assistant Professor of Clinical Pediatrics	21 Maple St. Springfield, Mass.
WALTER DANIELS BIEBERBACH, M.D. Assistant Professor of Clinical Urology	21 Haviland St. Worcester, Mass.
GARDNER NATHAN COBB, M.D. Assistant Professor of Clinical Pediatrics	51 Sever St. Worcester, Mass.
EDWARD PERRY DISBROW, M.D. Assistant Professor of Clinical Dermatology	109 Longfellow Rd. Worcester, Mass.
WINTHROP MAILLOT FLAGG, M.D. Assistant Professor of Urology	323 Pearl St.
WILLIAM HOWARD MARTIN, M.S. Assistant Professor of Agricultural Education	Charlotte
MILFORD LEROY HOBBS, M.D. Assistant Professor of Pathology	579 S. Willard St.
ANDREW EDGERTON NUQUIST, Ph.D. Assistant Professor of Political Science	96 S. Willard St.
THEODORE HENRY HARWOOD, M.D. Assistant Professor of Medicine	R. F. D. Williston
ROBERT JOHN MACGREGOR FYFE, JR., B.S. First Lieutenant, U. S. Army Assistant Professor of Military Science and Tactics	71 Williams St.
DAVID WILLIAM JAMES, M.D. Assistant Professor of Obstetrics and Gynecology	33 Henderson Terr.
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FOSTER LANE VIBBER, M.D. Assistant Professor of Clinical Neurology	27 Elm St. Worcester, Mass.
ALBAN BENNETT ROONEY, M.S. Assistant Professor of Physics	26 University Ter.
JOHN ABAJIAN, JR., M.D. Assistant Professor of Anesthesia	Shelburne Rd.
JESSE OGLEVEE ARNOLD, II, M.D. Assistant Professor of Clinical Neurology	36 Pleasant St. Worcester, Mass.

ARTHUR GLADSTONE, M.D. Assistant Professor of Clinical Surgery	514 North St.
ORLO CHARLES PACIULLI, M.D. Assistant Professor of Clinical Medicine	Fort Ethan Allen
MARGARET BISHOP DOUGHTY, M.S. Assistant Professor of Home Economics	26 Summit St.
HERBERT DEAN PEARL, M.A. Assistant Professor of Education	154 Summit St.
*WILLIAM HENRY SHEHADI, D.D.S., M.D. Assistant Professor of Radiology	1 Juniper Ter.
HELEN RENWICK LeBARON, M.S. Assistant Professor of Home Economics	416 Pearl St.

Instructors

CHARLES ARTHUR RAVEY, M.D. Instructor in Clinical Medicine	57 N. Winooski Ave.
ALBERT EUGENE BATCHELDER Instructor in Shop Practice	27 University Ter.
MRS. ELIZABETH BRADISH Instructor in Music	133 King St.
MIRIAM NATILEE MARSTON, A.M. Instructor in Music	28 Prospect Hill
MARY LOUISE MORGAN, B.S. Instructor in Economics	7 N. Willard St.
ELMER WATERS PIKE, M.D. Instructor in Clinical Medicine	262 Pearl St.
CONSTANCE LORRAINE BROWN, M.S. Instructor in Chemistry	230 S. Union St.
CARL LUCARINI, A.M. Instructor in Chemistry	52 N. Prospect St.
MERRILL DUSTIN POWERS, B.S. Instructor in English	22 Ledgemere St.
†WINONA EMYLE STONE, M.S. Instructor in Botany	
MRS. ISABEL CLARK MILLS, A.M. Instructor in Art	56 Latham Ct.
MARY BURKE SULLIVAN, A.M. Instructor in Education and English	155 S. Prospect St.
BARBARA CROWE, B.S. Instructor in Physical Education for Women	186 S. Willard St.

* Appointed November 1, 1941.

† Absent on leave, 1941-1942.

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MRS. ANTOINETTE HUBBARD LOUDON, M.S. Instructor in Zoology	371 Pearl St.
ERALD FAIRBANKS FOSTER, M.D. Instructor in Public Health	444 S. Willard St.
ADELAIDE RAWSON, A.M. Instructor in Home Economics	14 Kingsland Ter.
HOLDEN BURR BICKFORD, A.B. Instructor in German	47 Adams St.
JOHN CLIFFORD EVANS, B.S. Instructor in Physical Education for Men	482 S. Union St.
HAROLD EDWARD MEDIVETSKY, M.D. Instructor in Clinical Medicine	217 S. Union St.
*LORRIN ANDREWS RIGGS, Ph.D. Instructor in Psychology	
†JESSE ALBERT RUST, M.D. Instructor in Clinical Obstetrics	
CLARENCE JESS SPEAS, D.D.S. Instructor in Oral Hygiene and Dental Medicine	71 Pine St.
ALBERT MAX KARL BLUME, Ph.D. Instructor in German	38 Silver Ct.
LESLIE ALEXANDER EVANS, V.S. Instructor in Veterinary Science	Essex Junction
RUDOLPH PETER PAPPAS Sgt., Medical Corps, U. S. Army Instructor in Medico-Military Science	320 E. Allen St. Winooski
EMELIE MUNSON PERKINS, A.B., M.D. Instructor in Home Economics	45 N. Main St. Rutland
JOHN HAROLD PERRY, A.B., B.S. Instructor in Zoology	236 S. Prospect St.
JAMES ALBERT PICKETT Staff Sgt., U. S. Army Instructor in Military Science and Tactics	106 Colchester Ave.
ROY JOHN WIETZ, A.M. Instructor in Physical Education for Men	510 S. Union St.
SHELDON WARD WILLIAMS, Ph.D. Instructor in Agricultural Economics	40 Gilbert St. South Burlington
HARRY PHILIP LEVINE, M.S. Instructor in Zoology	171 N. Winooski Ave.
†VERNA ELIZABETH PARKER, A.M. Instructor in Education	
KATHERINE ELLA McSWEENEY, M.D. Instructor in Clinical Medicine	44 S. Willard St.

* Absent on leave, 1941-1942 (defense work).

† Absent on leave, 1941-1942.

- *FRED SCOTT KENT, M.D.
Instructor in Clinical Medicine
11 High St.
Springfield, Mass.
- PAUL MILLNER ASHTON, M.D.
Instructor in Clinical Obstetrics
49 School St.
Springfield, Mass.
- AZEL PACKARD BARNEY, M.D.
Instructor in Clinical Obstetrics
81 S. Willard St.
- COLEMAN HAMILTON BENEDICT, Ph.D.
Instructor in Classical Languages
34 N. Williams St.
- NATHAN RENWICK CALDWELL, M.D.
Instructor in Clinical Radiology
Essex Junction
- ALBERT JAMES CRANDALL, M.D.
Instructor in Clinical Surgery
- *HENRY MAURICE FARMER, M.D.
Instructor in Preventive Medicine and Public Health
- *ALFRED MYRON GLICKMAN, M.D.
Instructor in Clinical Obstetrics
- RALPH HAWTHORNE GRANGER, M.S.
Instructor in Agricultural Engineering and Poultry Husbandry
40 University Ter.
- ROBERT EDWARD LEE LORING, M.D.
Instructor in Clinical Obstetrics
4 Chestnut St.
Springfield, Mass.
- JAMES WALLACE MARVIN, Ph.D.
Instructor in Botany
Spear St.
South Burlington
- ELLIOTT TUCKER MERRICK, A.B.
Instructor in English
20 Weston St.
- GEORGE LEE MILLIKAN, A.M.
Instructor in Political Science
579 S. Willard St.
- DANIEL JOHN MORIARTY, M.D.
Lieutenant, Medical Corps, U. S. Army
Fort Ethan Allen
- SAMUEL HARDING NICHOLS, JR., Ph.D.
Instructor in Chemistry
81 S. Willard St.
- STANLEY STEVEN STUSICK, M.D.
Instructor in Clinical Obstetrics
59 Maple St.
Springfield, Mass.
- VANCE TARTAR, Ph.D.
Instructor in Zoology
54 S. Willard St.
- CHRISTOPHER MARLOWE TERRIEN, M.D.
Instructor in Clinical Medicine
Pachen Rd., S. Burlington
- JOSEPH GEORGES THABAULT, M.D.
Instructor in Clinical Medicine
71 Main St.
Winooski
- LOUIS GEORGE THABAULT, M.D.
Instructor in Surgery
71 Main St.
Winooski
- FREDERICK CHARLES THORNE, Ph.D., M.D.
Instructor in Psychiatry
Brandon
- GEORGE CHANDLER TULLY, M.D.
Instructor in Clinical Urology
390 Main St.
Worcester, Mass.

* Absent on leave, 1941-1942 (war service).

Officers of Instruction

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*JAMES PATRICK MAHONEY, M.D. Instructor in Clinical Medicine	177 S. Union St.
JOHN FREDERICK LYNCH, M.D. Instructor in Clinical Surgery	36 Pleasant St. Worcester, Mass.
THOMAS PATRICK CUNNINGHAM, M.D. Instructor in Clinical Pediatrics	37 Commodore Rd. Worcester, Mass.
LESTER MAHAN FELTON, M.D. Instructor in Clinical Urology	34 Maple St. Springfield, Mass.
NELSON NEWMARK, M.D. Instructor in Clinical Pediatrics	390 Main St. Worcester, Mass.
ALFRED SMITH O'CONNOR, M.D. Instructor in Clinical Pediatrics	27 Elm St. Worcester, Mass.
OLNEY DRAPER PHELPS, M.D. Instructor in Clinical Urology	20 Maple St. Springfield, Mass.
*NICHOLAS SALVATORE SCARCELLO, M.D. Instructor in Clinical Urology	295 S. Prospect St.
PAUL FREDRIC FENTON, M.S. Instructor in Physiological Chemistry	316 Main St.
MICHAEL ANSELMO Instructor in Music	335 S. Union St.
STUART STARNES CORBIN, M.D. Instructor in Pediatrics	Mary Fletcher Hospital
RICHARD BARRE DAVIS, M.D. Instructor in Medicine	433 Main St.
SHERMAN PERRY FOGG, B.S. Instructor in Physical Education for Men	R. F. D. No. 1 South Burlington
RAYMOND THOMAS CONNER Master Sergeant, U. S. Army (Retired) Instructor in Military Science and Tactics	71 S. Willard St.
STUART LYNDE JOHNSTON, Ph.D. Instructor in Romance Languages	Richmond
†BLENDIA VIRGINIA LARSON, A.M. Instructor in Physical Education for Women	212 Park St.
ANDREW JOHN LANDA Sergeant, U. S. Army Instructor in Military Science and Tactics	15 N. Williams St.
HYMAN BERNARD LEVINE, M.D. Instructor in Clinical Medicine	2 Bilodeau Ct.
IPPOCRATES PAPPOTSAKIS, Mus.B. Instructor in Music	
CHARLES LEONARD PARK, JR., B.S. Instructor in Agricultural Education	

* Absent on leave, 1941-1942 (war service).

† Resigned October 18, 1941.

DELLA MARGARET PERRIN, A.M. Supervisor of Student Teaching (Elementary)	376 College St.
FRANK ALPHONSE SLESINSKI, M.S. Instructor in Physiological Chemistry	15 Adsit Ct.
HENRY CLAY SMITH, Ph.D. Instructor in Psychology	108 Loomis St.
ROBERT BASCOM AIKEN, M.D. Instructor in Industrial Hygiene	Barre
HARRY JOSEPH ANTONIEWICZ, M.D. Instructor in Surgery and Anatomy	Bishop DeGoesbriand Hospital
DOROTHY BLACK CORBIN, M.D. Instructor in Pediatrics	335 S. Union St.
JOHN SEELEY ESTABROOK, M.D. Instructor in Clinical Pediatrics	Brandon
HELEN EDITH HEINO, M.A. Instructor in Clinical Pathology and Bacteriology	15 N. Williams St.
ELIZABETH KUNDERT, M.D. Instructor in Psychiatry	Montpelier
WILLIAM HALLER, JR., M.A. Instructor in Economics	Shelburne
GEORGE EIDT LENT, M.B.A. Instructor in Economics	380 Pearl St.
ROBERT ELI LONG, M.A. Instructor in Political Science	59 University Ter.
DOUGLAS TILLMAN McCLAY, Ph.D. Instructor in Mathematics	175 S. Union St.
ROBERT COLLIER NEWTON, Ph.D. Instructor in Chemistry	300 Main St.
MRS. GERALDINE MANER OWENS, A.M. Instructor in Home Economics	247 S. Prospect St.
GEORGE DAND PERISHO, B.S. Instructor in Animal and Dairy Husbandry	28 Brookes Ave.
WILLIAM COURTNEY HAMILTON PRENTICE, A.M. Instructor in Psychology	220 Pearl St.
RANSOM ORCUTT SLACK, B.S. Instructor in Dairy Manufacturing	236 S. Prospect St.
BETTY FLANDERS THOMSON, M.A. Instructor in Botany	151 S. Prospect St.
NEIL KENNETH WILLIAMS, Ph.D. Instructor in Animal and Dairy Husbandry	482 S. Union St.
*BETTY LOU WITTERS, B.S. Instructor in Physical Education for Women	186 S. Willard St.
†JULIAN PETER MAES, M.D. Instructor in Physiology	33 Henderson Terr.

* Appointed October 18, 1941.

† Appointed January 1, 1942.

Officers of Instruction

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*EDWIN ELLSWORTH MILLER, M.E. Instructor in Mechanical Engineering	Shelburne Rd.
†MARION HUNTINGTON BROWN, B.S. Instructor in Home Economics	230 S. Union St.

Assistants

MARY FRANCES MADIGAN Assistant in Elementary Education	120 Buell St.
MRS. ELIZABETH WARNER MORRILL, A.M. Assistant in Education	30 Adsit Ct.
CLARENCE EDWARD BOMBARD, B.S., M.D. Assistant in Surgery	16 St. Paul St.
JOHN HENRY McCREA, B.S., M.D. Assistant in Medicine	33 E. Allen St. Winooski
WILLIAM HENRY HEININGER, M.D. Assistant in Medicine	53 S. Winooski Ave.
‡EDWARD HENRY JACOBSON, Ph.B. Assistant in History	
CLAYTON HARRY HALE, M.D. Assistant in Radiology and Physical Therapy	236 S. Prospect St.
§ROBERT SHERMAN QUIMBY, M.A. Assistant in History	88 N. Willard St.
||ALAN B. SHOWALTER, B.S.E., B.S. Assistant in Physics	40 Hickok St.
¶REGINALD F. KRAUSE, M.S. Assistant in Pharmacology	5 Handy Ct.

Research Fellows

°CHANNING LEACH ADAMS, B.S. Physics	
JEAN ELIZABETH BREHMER, Ph.B. English	403 College St.
EARLE RALPH PURCHASE, B.S. Chemistry	407 College St.
HEATH KENYON RIGGS, B.S. Mathematics	Richmond

* Appointed January 26, 1942.

† Appointed February 1, 1942.

‡ Resigned December 1, 1941.

§ Appointed December 4, 1941.

|| Appointed December 8, 1941.

¶ Appointed March 1, 1942.

° Resigned January 17, 1942.

ETHYLE RENEE WOLFE, A.B. Latin	73 Hyde St.
ELLEN FRANCES BIRCHALL, A.B. Physiological Chemistry	333 S. Prospect St.
JOSEPH THOMAS BOTTAMINI, M.D. Surgery	Mary Fletcher Hospital
BURNETT SHELDON RAWSON, M.D. Pathology	Williston
BEVERLY GERTRUDE ALEXANDER, A.B. English	59 University Ter.
JACK WILEY HINMAN, A.B. Chemistry	307 Colchester Ave.

Lecturers

HARRY BARKER, B.S. Lecturer on the Practice of Engineering	11 Park Pl. New York, N. Y.
AARON HINMAN GROUT, Ph.B. Lecturer in Medical Jurisprudence	360 Main St.
DAVID MANSON, D.D.S. Lecturer in Oral Hygiene and Dental Medicine	79 S. Willard St.

Supervisors of Student Teaching

LYMAN CURTIS HUNT, A.M.	270 Main St.
GEORGE ROLLIN STACKPOLE, A.M.	Winooski
ARTHUR PIERRE COUTURE, A.M.	Winooski
CATHERINE C. CARTIER	153 Park St.
MARY K. McDERMOTT	25 Nash Pl.
MARGARET B. SEARS	72 Catherine St.
ANNAH THOMAS BOYDEN	Essex Junction

ADMINISTRATIVE OFFICERS

JOHN SCHOFF MILLIS, B.S., M.S., Ph.D. President of the University	204 S. Willard St. Waterman Building
*NEWMAN KEYES CHAFFEE, A.B. Acting President	
†PAUL C. PACKER, Ph.D. Temporary President	

* Resigned August 16, 1941.

† Appointed for two months, September 1 to November 1, 1941.

Officers of Instruction

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<p>JOSEPH LAWRENCE HILLS, B.S., Sc.D. Dean of the College of Agriculture and Director of the Agricultural Experiment Station</p>	<p>59 N. Prospect St. Morrill Hall</p>
<p>ELIJAH SWIFT, Ph.D. Dean of the College of Arts and Sciences</p>	<p>415 S. Willard St. Waterman Building</p>
<p>GEORGE FREDERICK ECKHARD, B.S., C.E. Dean of the College of Engineering and Director of the Engineering Experiment Station</p>	<p>178 Summit St. Waterman Building</p>
<p>CLARENCE HENRY BEECHER, M.D. Dean of the College of Medicine</p>	<p>151 Robinson Pkwy. College of Medicine Building</p>
<p>ARTHUR BRADLEY SOULE, JR., M.D. Assistant Dean of the College of Medicine</p>	<p>144 Ledge Rd. College of Medicine Building</p>
<p>*HARDY ALFRED KEMP, M.D. Dean of the College of Medicine</p>	
<p>PROCTOR HULL PAGE, LL.B. Assistant to the President</p>	<p>100 DeForest Rd. Waterman Building</p>
<p>MARY JEAN SIMPSON, Ph.B. Dean of Women</p>	<p>61 N. Prospect St. Waterman Building</p>
<p>FREDA MARIE HARRIS, A.M. Assistant Dean of Women</p>	<p>Redstone Waterman Building</p>
<p>FORREST WILKINS KEHOE, B.S. Acting Comptroller and Registrar of the University</p>	<p>101 Overlake Pk. Waterman Building</p>
<p>JOSEPH EDWARD CARRIGAN, A.M. Director of the Agricultural Extension Service</p>	<p>188 Loomis St. Extension Building</p>
<p>BENNETT COOPER DOUGLASS, Ph.D. Director of the Summer Session</p>	<p>122 Summit St. Waterman Building</p>
<p>†HEATH KENYON RIGGS, B.S. Director of Admissions</p>	<p>Richmond Waterman Building</p>
<p>LEON W. DEAN, A.B. Director of Publicity</p>	<p>308 S. Prospect St. Waterman Building</p>
<p>MERRILL DUSTIN POWERS, B.S. Secretary of the Rooming and Employment Bureau</p>	<p>22 Ledgemere St. Waterman Building</p>
<p>‡RUTH HELEN GREGORY, Ph.B. Assistant Registrar</p>	
<p>ANNA CAROLINE SMITH, Ph.B. Secretary to the President</p>	<p>153 S. Prospect St. Waterman Building</p>
<p>SETH THOMAS BRUCE Cashier</p>	<p>50 Bay View St. Waterman Building</p>
<p>EDWIN BARTLETT ABBOTT Chief Accountant</p>	<p>492 S. Union St. Waterman Building</p>
<p>ANNIS ORRILLA BARNEY, Ph.B. Manager of the University Stores</p>	<p>33 S. Prospect St. Waterman Building</p>

* Resigned September 1, 1941.

† Appointed February 1, 1942.

‡ Resigned February 1, 1942.

HELEN EDITH FRENCH Assistant Cashier	147 N. Prospect St. Waterman Building
GEORGE NAY CLERKIN Assistant Cashier	48 Gove Ct. Waterman Building
HELEN EDNA NICHOLS. B.S. Dietitian	Grassmount
MRS. DELIA MORCOMBE KENYON Recorder	505 North St. Waterman Building
ALBERT GEORGE MACKAY, M.D. Medical Director of Athletics	120 Ledge Rd. Gymnasium
THEODORE HENRY HARWOOD, M.D. Director Student Health Service	R. F. D., Williston Waterman Building
DOROTHY BLACK CORBIN, M.D. Assistant Director Student Health Service	335 S. Union St. Waterman Building
JOSEPH F. LECHNYR Leader R. O. T. C. Band	10 Russell St. Gymnasium
WILLIAM M. TULLY Head Janitor	82 East Ave. College of Medicine Building
MRS. JANET ADAMS BICKFORD Social Director Southwick Memorial	47 Adams St.
MRS. WAIT JOHNSON Director Allen House	461 Main St.
MRS. ANNA P. WILLARD Director Grassmount	411 Main St.
MRS. GEORGE GRAVES Director Prospect House	42 N. Prospect St.
MRS. PAUL M. PILCHER Director Redstone	Redstone Campus
MRS. C. W. RICHMOND Director Roberts House	232 S. Willard St.
MRS. FRED H. TOWNE Director Robinson Hall	Redstone Campus
MRS. ANNA N. BOSWORTH Director Sanders Hall	368 College St
MRS. ANDREW LOUDON Director Slade Hall	Redstone Campus
MISS NELLIE HERRMAN Director Warner House	96 Colchester Ave.
MRS. C. C. MOODY Director Claggett House	301 S. Willard St.

The Library Staffs

HELEN BARNES SHATTUCK, A.B. Librarian of the University	308 Pearl St.
MARY RUSSELL BATES, Ph.B. Associate Librarian of the University	41 N. Willard St.
MARY OLIVE BOYNTON, Ph.B. Librarian of the Medical Library	31 S. Prospect St.
*MRS. ANNIE SWASEY DONAHUE, A.B. Librarian of the Wilbur Library	
†MRS. DORIS JEAN HARVEY Acting Librarian of the Wilbur Library.	27 Latham Ct.
GLADYS FLINT, A.B. Assistant Librarian of the Billings Library	29 S. Prospect St.
FREDERIKA BRIGHAM NORTHROP, B.S.	Spear St. South Burlington
‡KENNETH LEON RAYMOND, A.M.	
DOROTHY MARGARET DICKINSON, B.S.	322 Pearl St.
DORIS MARJORY DOPP, B.S. Assistants in the Billings Library	100 N. Winooski Ave.

Fleming Museum Staff

HENRY FARNHAM PERKINS, Ph.D. Director	205 S. Prospect St.
ELBRIDGE CHURCHILL JACOBS, A.M. Curator of the Geological and Mineralogical Collections	146 Williams St.
HORACE BYRON ELDRED Assistant Director	Queen City Park
CHARLES GEORGE DOLL, A.M. Assistant Curator of the Geological Collections	31 S. Prospect St.
F. JOYCE PELOUBET Assistant Curator of Collections	239 S. Prospect St.
ANTHONY GELINEAU Technician	60 LaFountain St.
MRS. GERTRUDE M. BICKNELL Secretary	146 Colchester Ave.

* Deceased December 22, 1941.

† Appointed February 1, 1942.

‡ Absent on leave, 1941-1942.

The Senate Committees, 1942-1943

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- STUDENT CONFERENCE—D. B. Carroll, Chairman, W. E. Aiken, P. D. Carleton, Eleanor Cummings, R. F. Doane, W. L. Gardner, Helen LeBaron, J. H. Perry and Mary Jean Simpson.
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- STUDENT PERSONNEL—A. R. Gifford, Chairman, B. C. Douglass, J. W. Marvin, C. A. Newhall, L. B. Puffer, L. S. Rowell and the Deans.

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JOSEPH LAWRENCE HILLS, B.S., Sc.D. Director	59 N. Prospect St.
GEORGE PLUMER BURNS, Ph.D. Assistant Director	453 S. Willard St.
FORREST WILKINS KEHOE, B.S. Assistant Treasurer	101 Overlake Pk.

* Absent on leave.

*MARION VIOLA URIE, Ph.B.
Secretary

Agricultural Economics

JOHN ALLEN HITCHCOCK, M.S. Agricultural Economist	15 Weston St.
SHELDON WARD WILLIAMS, Ph.D.	40 Gilbert St. South Burlington
THURSTON MADISON ADAMS, M.S. Assistant Agricultural Economists	169 Ferguson Ave.

Agronomy

ALVIN REES MIDGLEY, Ph.D. Agronomist	41 University Ter.
DAVIS EDWARD DUNKLEE, M.S.	1 Appletree Ct.
JOSEPH BURNHAM KELLEY, M.S. Assistant Agronomists	236 S. Prospect St.
RICHARD DAVIS HALLIGAN, B.S. Research Fellow	235 Loomis St.

Animal and Dairy Husbandry

HOWARD BOWMAN ELLENBERGER, Ph.D. Animal and Dairy Husbandman	55 Robinson Pkwy.
OSMAN MYRON CAMBURN, M.S.	26 Robinson Pkwy.
ERNEST OLIVER HERREID, Ph.D.	R. F. D. 2
JOHN ALVIN NEULANDER, Ph.D. Associate Animal and Dairy Husbandmen	45 University Ter.
JAMES MARSHALL FRAYER, M.S. Associate Dairy Bacteriologist	281 S. Winooski Ave.
NEIL KENNETH WILLIAMS, Ph.D.	482 S. Union St.
DANA WALLIS WHITMAN, M.S. Assistant Animal and Dairy Husbandmen	2 Bradley St.
ARNOLD HENRY LOHMAN, B.S. Research Fellow	45 University Ter.

Botany

GEORGE PLUMER BURNS, Ph.D. Botanist	453 S. Willard St.
ALEXANDER GERSHOY, Ph.D.	421 North St.
WILLIAM RITCHIE ADAMS, Ph.D.	36 Overlake Pk.
JAMES WALLACE MARVIN, Ph.D. Assistant Botanists	Spear St. South Burlington
EDWARD SUTER IRWIN, B.S.	260 S. Union St.
CHARLES CONRAD LARSON, B.S. Research Fellows	43 N. Willard St.

Chemistry

CHARLES HOWLAND JONES, M.S. Chemist	65 Henderson Ter.
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* Resigned January 31, 1942.

MRS. JENNIE ROWELL BRADLEE, B.S.	69 N. Prospect St.
FRED BRISSON	39 Grove St.
MURRAY WILLBUR FOOTE, B.S.	151 Loomis St.
Assistant Chemists	

Home Economics

MARIANNE MUSE, M.S.	506 S. Union St.
Research Home Economist	
MARGARET MAY COWLES, M.S.	16 Prospect Hill
Assistant Research Home Economist	

Horticulture

MARSHALL BAXTER CUMMINGS, Ph.D.	230 Loomis St.
Horticulturist	
CHARLES HUGO BLASBERG, M.S.	120 Robinson Pkwy.
ERWIN WHEAT JENKINS, M.S.	25 Booth St.
RANSOM GRAVES DUNNING, B.S.	S. Burlington
Assistant Horticulturists	

Plant Pathology

BENJAMIN FRANKLIN LUTMAN, Ph.D.	111 N. Prospect St.
Plant Pathologist	
*WINONA EMYLE STONE, M.S.	
Assistant Plant Pathologist	
KENNETH EVERSON VARNEY, B.S.	E. Allen St.
Research Fellow	Winooski

Regulatory Service

LEWELL SETH WALKER, B.S.	395 College St.
EUGENE FIELD BOYCE, B.S.	Spear St.
Chemists	South Burlington
MRS. ANNA SHEPARD LUTMAN, Ph.B.	111 N. Prospect St.
Seed Analyst	

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President	
GEORGE FREDERICK ECKHARD, B.S., C.E.	178 Summit St.
Director	
FORREST WILKINS KEHOE, B.S.	101 Overlake Pk.
Assistant Treasurer	
MRS. ETHEL A. HARRINGTON	205 S. Winooski Ave.
Secretary	

* Absent on leave, 1941-1942.

Civil Engineering

LOUIS BLACKMER PUFFER, C.E. 176 Loomis St.

Electrical Engineering

EDD RUTHVEN McKEE, M.S., E.E. 42 Henderson Ter.

Mechanical Engineering

HARRY LAWRENCE DAASCH, M.S., M.E., Met.E. 89 Ledge Rd.

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JOSEPH EDWARD CARRIGAN, A.M. 188 Loomis St.
Director

HARRIS WELLS SOULE, B.S. 308 Main St.
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ELWIN LEROY INGALLS, A.B. 144 S. Willard St.
State Club Leader

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MRS. RUTH WHITE TOWNSEND, B.S. Williston Rd.
Assistant State Club Leaders South Burlington

MARJORIE ELLINWOOD LUCE, B.S. 230 S. Union St.
State Home Demonstration Leader

HARRY PERRY MILEHAM, B.S. Essex Junction
Secretary and Editor

IRENE ELLEN ALLEN, Ph.B. 240 S. Prospect St.
Assistant to the Director

LEROY JAMES DOPP, JR. 10 Lafayette Pl.
Administrative Clerk

Specialists

HARRY ROSS VARNEY, Ph.D. 502 North St.
Agricultural Economics

ROBERT POWERS DAVISON, B.S. Essex Jct.
(Assistant) Agricultural Economics

PAUL ROBERT MILLER, M.S. 45 Robinson Pkwy.
Agronomy and Soil Conservation

LESTER HURLIN SMITH, M.S. (Assistant) Agronomy	Williston Rd. South Burlington
EDNA ELLA SOMMERFELD, B.S. Clothing	342 Pearl St.
EDWARD HILDRETH LOVELAND, A.M. Dairy Husbandry	101 Henry St.
RALPH FREDERICK EVANS, B.S. (Assistant) Dairyman	97 Robinson Pkwy.
GEORGE WILBUR COBURN TURNER, M.F. Forestry	166 East Ave.
MRS. CHARLOTTE PIERPONT BROOKS, B.S. Home Management	20 N. Williams St.
CHARLES HUGO BLASBERG, M.S. Horticulture	120 Robinson Pkwy.
*WARREN ALBERT DODGE, B.S.	20 Adams Ct.
ROY STANLEY BECK, Ph.D. Land Use Planning	502 North St.
LOUISE MAY STOLLBERG, M.A.	216 S. Willard St.
DONALD CEDRIC HENDERSON, M.S. Poultry Husbandry	55 University Ter.
DAVID AUGUSTINE WALKER, D.V.M. Animal Pathology	Morrisville

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GORDON HORATIO GATES, B.S. Orange County	Chelsea

* Absent on leave (war service).

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37

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MRS. JENNIE ARMSTRONG HALL, B.S. Windsor County	Woodstock
MRS. FLORENCE LILLIAN WRIGHT At Large	89 N. Prospect St. Burlington

County Club Agents

LOUISE SEGOURNEY BULLARD, B.S. Addison County	Middlebury
--	------------

MARION HARDY, A.B. Bennington County	Bennington
MRS. FLORA ISABEL ROWE, B.S. Caledonia County	St. Johnsbury
HAROLD GORDON PAGE, B.S. Chittenden County	89 N. Prospect St. Burlington
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GLENN FREDERICK McPHEE, B.S. Orleans County	Newport
EDWIN EMIL BERGSTROM Rutland County	Rutland
MARY PAULINE ROWE, B.S. Washington County	Montpelier
BRUCE ROBERT BUCHANAN, B.S. Windham County	Brattleboro
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THE SUMMER SESSION, 1941

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RALPH E. NOBLE, A.M., Ed.M. State Commissioner of Education
BENNETT C. DOUGLASS, Ph.D. Director of the Summer Session
MARY JEAN SIMPSON, Ph.B. Dean of Women
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HELEN B. SHATTUCK, A.B. Librarian
MARY R. BATES, Ph.B. Associate Librarian
HELEN NICHOLS, B.S. Dietitian

JANE ALLEN, B.S.

Secretary

JENNIE E. ALLEN

Director of Dormitories

The Faculty

NELLE A. ADAMS, A.M.

Assistant Professor of Education

THURSTON ADAMS, Ed.D.

Associate Professor of Physical Education, Rollins College, Winter Park, Fla.

WELLINGTON E. AIKEN, A.M.

Associate Professor of English

ALICE C. ALDRICH, A.M.

State Supervisor, Health and Physical Education

MICHAEL ANSELMO

Instructor in Violin

NINA B. BAILEY, A.B.

Instructor in Public School Music, Gorham, Me.

HOWARD G. BENNETT, A.M.

Professor of Music

HOLDEN B. BICKFORD, A.B.

Instructor in German

CHARLES E. BRAUN, Ph.D.

Associate Professor of Organic Chemistry

ALFRED G. BUEHLER, Ph.D.

Associate Professor of Public Finance, University of Pennsylvania

JAMES A. BULLARD, Ph.D.

Professor of Mechanics and Mathematics

RALPH A. BURNS, Ed.M.

Professor of Education, Dartmouth College

ARTHUR D. BUTTERFIELD, M.S., A.M.

Professor of Mathematics and Geodesy

PHILLIPS D. CARLETON, A.M.

Assistant Professor of English

FRED D. CARPENTER, Ph.D.

Professor of German

DANIEL B. CARROLL, Ph.D.

Associate Professor of Political Science

RUTH W. COBURN, A.B.

Art Supervisor, Burlington

ELIZABETH V. COLBURN, A.M.

Assistant Professor of Education (Art)

REX M. COLLIER, Ph.D.

Assistant Professor of Psychology

- GENNETTE C. DAVIS, A.M.
Assistant Professor of Economics (Secretarial)
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Assistant Professor of English
- ELIZABETH H. DEE, A.M.
Instructor in Physical Education, New York City
- JOHN B. DEFOREST, Ph.D.
Associate Professor of Romance Languages
- ELEAZER J. DOLE, Ph.D.
Associate Professor of Botany
- CHARLES G. DOLL, A.M.
Assistant Professor of Geology
- GEORGE DYHUIZEN, Ph.D.
Associate Professor of Philosophy
- PAUL D. EVANS, Ph.D.
Professor of History
- FLORENCE E. FISHER
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Instructor in Poultry Husbandry and Farm Mechanics
- GEORGE G. GROAT, Ph.D.
Professor of Economics
- RAYMOND A. HALL, A.M.
Assistant Professor of English
- SARA M. HOLBROOK, A.M.
Assistant Professor of Education
- JOHN C. HUDEN, A.M.
Principal, Bradford Academy, Demonstration High School Teacher
- MARGARET R. KELLEY
Vermont State Helping Teacher
- GEORGE V. KIDDER, A.B., Oxon., Ph.D.
Associate Professor of Greek and Latin
- FLORANCE B. KING, Ph.D.
Professor of Home Economics
- LOIS J. KING, Ed.B.
Demonstration Teacher, Grades 5 and 6, State Teachers' College, New Haven,
Conn.
- WILLIAM C. KVARACEUS, Ed.M.
Educational Consultant, Brockton, Mass.
- HELEN R. LEBARON, M.S.
Instructor in Home Economics
- EDGAR E. LINEKEN, M.S.
Assistant Professor of Chemistry
- FRANK McMULLAN, M.F.A.
Assistant Professor of Play Production, Department of Drama, Yale University

Officers of Instruction

41

- GEORGE McMULLEN, A.B.
Instructor in Speech, Toronto, Ont.
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Instructor in Zoology
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Instructor in Music (Piano and Organ)
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Professor of Psychology
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Associate Professor of Zoology
- ELIZABETH W. MORRILL, A.M.
Director Peter Pan Nursery School, Burlington
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Instructor in Fine Arts Education, Teachers College, Columbia University
- ARTHUR B. MYRICK, Ph.D.
Professor of Romance Languages
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Teacher of Typewriting, Demonstration High School
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Professor of Physical Education
- LESTER M. PRINDLE, Ph.D.
Professor of Latin and Greek
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- LYMAN S. ROWELL, M.S.
Assistant Professor of Zoology

- PAUL SAMPLE, A.M.
Artist in Residence, Dartmouth College
- JOHN F. SCULLY, M.Pd.
Special Lecturer in Education, Boston University
- AMORY D. SEAVER, Ed.M.
Principal, Middlebury High School, Demonstration High School Teacher
- HOLLAND L. SMITH, A.M.
Head of Social Science Department, Burlington High School
- WILLIAM A. SMITH, Ph.D.
Assistant Professor of Rural Education, Cornell University
- HELEN E. STENSON, A.M.
Specialist in Rural Education, State Teachers College, Macomb, Ill.
- MARY B. SULLIVAN, A.M.
Instructor in Elementary Education
- ELEANOR SUTCLIFFE
Demonstration Teacher, Grades 3 and 4, Springfield, Mass.
- ANNAH THOMAS BOYDEN, B.S.
Home Economics Critic Teacher, Essex Junction
- RANDOLPH S. TOWNE, A.M.
Assistant Professor of French and Spanish
- G. MAYNARD TRAFTON, B.S., C.E.
Assistant Professor of Industrial Education
- FREDERICK TUPPER, Ph.D.
Professor of English
- EDMUND J. VACHON, A.M.
Teacher of French, Gould Academy, Bethel, Me.
- ARTHUR E. WINKLER, M.F.A.
Department of Drama, Yale University
- STANLEY WOOD, A.B.
Instructor in Stage Craft, Maplewood, N. J.
- FLORENCE M. WOODARD, Ph.D.
Associate Professor of Economics
- LLOYD A. WOODWARD, M.S.
Assistant Professor of Physics

General Information

LOCATION

The University of Vermont and State Agricultural College is located in Burlington on Lake Champlain, a beautiful residential city of more than twenty-seven thousand people. The buildings of the University are situated on the summit of the hill upon which Burlington is built. The campuses command a western view of the lake and the Adirondack Mountains and an eastern view of a part of the Green Mountain range including Mount Mansfield and Camel's Hump.

Burlington is a desirable home for the University. The city offers many cultural advantages which supplement those provided by the University. It is connected by through rail, air and motor bus lines with Boston, New York and Montreal.

In the valley of Lake Champlain there are many points famous for their historical associations. The names of Ira and Ethan Allen—the former having proposed to the Legislature the founding of the University—of Generals Amherst and Montcalm, Philip Schuyler, Commodore Macdonough and others connected with early American history, give color to this region.

CHARTERS AND CORPORATIONS

HISTORY OF THE ACADEMIC COLLEGES

The original Constitution of the independent republic of Vermont, the draft of which was completed at Windsor, July 2, 1777, just as the news came of Burgoyne's invasion of the valley of Lake Champlain, contained in Section 40, relating to education, this declaration: "One grammar school in each county and *One University in the State* ought to be established by direction of the General Assembly." Though omitted from subsequent revision, this was the earliest declaration in the constitution of any American State in favor of a single State University.

When Vermont proceeded to grant townships, and it granted many of them in the years immediately following the organization of the State, in almost every instance a grant of one right of land was made for a college;

and these grants subsequently became the property of the University of Vermont. One of the most active of the men who interested themselves in establishing an institution of higher learning in the State was Ira Allen, to whom Vermont is indebted perhaps more than to any other man for its existence as a State and for the preservation of its integrity during the troubled years preceeding its admission to the American Union. In 1789 Allen, while a member of the Legislature, offered to give four thousand pounds if such an institution were established at Burlington. The Legislature declined to accept the offer but appointed a committee to consider locations for the proposed University.

The first General Assembly after the State became a member of the Federal Union granted the charter of the University of Vermont, November 2, 1791; and by a vote of 89 to 37 for all other places, the University was located at Burlington. The corporation of the University was organized the day the law creating it was enacted and Ira Allen was one of its members.

The preamble and first section of the charter read as follows:

“WHEREAS, the education of youth is necessary for the advancement of morality, virtue and happiness, and tends to render a people or State respectable; to promote which, establishments for Seminaries and Colleges have ever been patronized by all good governments; and whereas several grants of land have already been made by the State and private liberal donations have been offered, for promoting so needful an establishment within the same, which demand the attention of this Legislature for laying the foundation of an institution so beneficial to society; therefore

“IT IS HEREBY ENACTED by the General Assembly of the State of Vermont, that there shall be and hereby is a College instituted and established at such a place in the township of Burlington in the County of Chittenden as the Corporators hereinafter named shall think most convenient for that purpose, to be known and designated by the name of THE UNIVERSITY OF VERMONT.

The charter provided that the Governor of the State, the Speaker of the House, and the President of the University should be members of the governing board, and vested in the Trustees of the University of Vermont full power “to appoint, elect, support, and remove from time to time, all such officers and servants as they shall find necessary; to direct the studies of the youth; to establish professorships and professors, and provide for their support; to make and establish all necessary rules, regulations and by-laws, for the orderly government of said University (provided always that the said rules, regulations, and by-laws shall not

tend to give preference to any religious sect or denomination whatsoever); to grant and confer such degrees, literary titles, honors, and other distinctions as other Universities, Colleges and Seminaries have done or may of right do; and to do any other thing which shall be found necessary for the government and welfare of such an institution." In 1810 the General Assembly passed a law providing that thereafter the Assembly and Council in joint session should elect all Trustees of the University of Vermont. This law was later repealed and the nine Trustees of the University of Vermont now elect their successors.

After the charter had been granted, there was considerable delay in the establishment of the University, due in part, it is probable, to the absence from the country of Ira Allen. In 1800, the first University President was elected, and instruction was begun by President Daniel C. Sanders. The first class was graduated in 1804. Since the University was opened it has continued the work for which it was organized with the exception of a period during the War of 1812, when the United States Government took possession of the main college building, using it for an arsenal and barracks.

The first college building, a wooden structure four stories high, was burned on May 27, 1824. With contributions secured locally three brick buildings, built in line but about eight feet apart, were constructed. The corner stone of the South College was laid by General Lafayette on June 29, 1825. The University of Vermont enrolled the first class in 1800, graduating four men in 1804. Women were first admitted to the College of Arts and Sciences in 1872.

In 1862, principally through the exertions of Hon. Justin S. Morrill, then a Representative and later a Senator from Vermont, Congress passed an "act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts." Under the provisions of this act the Legislature of Vermont in 1864 finally chartered the Vermont Agricultural College. The purposes of the Vermont Agricultural College were thus stated in its charter:

"The leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life."

Efforts to secure funds necessary under the law for the establishment of the Agricultural College were unsuccessful and the difficulty was met by joining under mutual agreement the corporation of the Vermont Agricultural College with that of the University of Vermont in a new corporation named the University of Vermont and State Agricultural College.

The new charter was approved November 6, 1865. The University of Vermont and State Agricultural College by the terms of its charter is vested with the property, rights, powers and privileges which belonged to both or either of the corporations so combined, and according to the terms of the act of incorporation, "shall be and remain a body corporate forever for the purpose of carrying out the objects contemplated in the respective charters" of the two institutions, namely: The University of Vermont, chartered in 1791, and the Vermont Agricultural College, chartered in 1864. The University of Vermont and State Agricultural College has, therefore, continued the courses in arts and sciences under the charter of the University of Vermont and the Colleges of Agriculture and Engineering under the charter of the Vermont Agricultural College, but the corporate existence of the constituent corporations is expressly continued under section 11 of the charter of the University of Vermont and State Agricultural College.

Gifts and bequests therefore may be made to (1) The University of Vermont, (2) The Vermont Agricultural College, (3) The University of Vermont and State Agricultural College.

By the provisions of an act of Congress, approved August 30, 1890, "to apply a portion of the proceeds of the public lands to the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts established under the provisions of an act of Congress approved July 2, 1862," and acts supplementary thereto, approved March 4, 1907, and June 29, 1935, the institution receives from the United States Treasury annual appropriations "to be applied only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematical, physical, natural and economical science, with special reference to their applications in the industries of life and to the facilities for such instruction."

The four-year courses in Agriculture were established in 1891. Home Economics was first taught in 1908.

The Vermont Agricultural Experiment Station was established as a department of the University of Vermont and State Agricultural College by the State Legislature of 1886. It receives the funds allotted to the State in accordance with the provisions of the Federal laws of 1887, 1906, 1925, and 1935, and certain State funds by virtue of a legislative act first passed in 1927. It also receives the fees paid to the State by commercial fertilizer, feed and seed vendors for the conduct of regulatory work and other purposes.

The Vermont Agricultural Extension Service was established as a department of the University of Vermont and State Agricultural College by the State Legislature of 1912. It receives the funds allotted to the

State in accordance with the provisions of the Federal laws of 1914, 1928 and 1935. It also receives State and local funds in accordance with (a) Section 4484 of the Public Laws of Vermont; (b) Sections 4631-42 of the Public Laws of Vermont as amended in Number 102 of the Acts of 1935 and Number 100 of the Acts of 1937; (c) Section 35 of Number 81 of the Acts of 1941, and No. 77 of the acts of 1941, local farm bureau association funds.

Courses in certain branches of Civil Engineering were first offered in the University of Vermont in 1829, it being one of the first institutions of higher learning in the United States to give such instruction. In 1866 a three-year and in 1869 a four-year curriculum in civil engineering was established as provided in the Federal Land-Grant Act of 1862. In 1891 curricula in electrical and mechanical engineering were established.

The Engineering Experiment Station, under the direction of the Dean of the College of Engineering, conducts scientific and technical research, the investigation of problems of value to the industries of the State and for the advancement of engineering as a profession. The faculty and research fellows constitute the staff.

HISTORY OF THE COLLEGE OF MEDICINE

The College of Medicine of the University of Vermont is the sixth oldest institution of its kind in the United States. A lecturer on Chirurgery and Anatomy was appointed by the Trustees of the University Corporation on August 16, 1804. In 1822 a full course of Medical Lectures was offered by an association of doctors who, under a cooperative arrangement with the Trustees of the University of Vermont, became the first faculty of the College of Medicine. The University approved faculty appointments and voted the degrees but assumed no financial responsibility for the school.

In 1829 a Medical College building was erected which is still standing at the south end of the University Campus. In 1836 the enterprise was abandoned because of the death of some of its leading spirits and for lack of students. There had been graduated up to that time one hundred and sixteen men.

The reorganization and successful reestablishment of this school were due chiefly to the efforts of Dr. S. W. Thayer, then a practitioner at Northfield. His efforts began in 1840 and finally were successful in 1853. The prosperity of the newly organized department in 1854 soon became manifest, and a material enlargement of the Old Medical College building, at the head of Main Street, became necessary. Subscriptions were secured and the necessary improvements were made. In 1870 the citizens of Burlington contributed an additional sum to enlarge the building by the

addition of a wing and to increase the seating capacity of the two lecture rooms. In 1884 the late John P. Howard generously gave a building at the head of Pearl Street which was occupied first in 1885.

After 1900 the connection between the Medical College and the University became closer and finally on December 4, 1908, the Trustees of the University of Vermont and State Agricultural College voted to "take under their complete control and management the Medical Department." Advancements in medical science and education during the present century has necessitated frequent revision and extension of required courses and clinical facilities and increase of the preparation prerequisite to admission. Three years of pre-medical work are now required; four years recommended. Clinical teaching in the last year of medicine has been extended to forty-four weeks. Since 1920 women have been eligible for enrollment.

Buildings and Grounds

EDUCATIONAL BUILDINGS

THE COLLEGE OF MEDICINE BUILDING (*Erected 1905*)

This building, located at the north end of the College Green, is a three-story structure of fireproof construction. Besides laboratories, lecture halls and recitation rooms used by the classes of the Medical College, it contains the Medical Library, the Pathological and Anatomical Museums, and the offices of the dean and the Faculty.

THE IRA ALLEN CHAPEL (*Dedicated 1927*)

Located at the north end of "College Row" on University Place is the Ira Allen Chapel, named for the founder of the University and given by the late James B. Wilbur. The chapel is recognized as a fine example of Georgian architecture.

The chapel has an excellent three manual organ which serves for student instruction and recital programs as well as its customary use in the various services. The seating capacity of the pews is approximately eleven hundred.

THE BILLINGS LIBRARY (*Erected 1885*)

This building, the gift of the late Frederick Billings of Woodstock, is an example of the best work of the famous architect H. H. Richardson.

It is built of Longmeadow sandstone. Beautifully grained Georgia pine is used as the interior finish and both the exterior and interior of the building are rich in ornament. Mr. and Mrs. Billings gave one hundred and twenty-five thousand dollars as an endowment fund for the building.

The Library contains over one hundred and fifty thousand volumes and forty-five thousand pamphlets and is the largest collection of books in the State. It has a classified shelf arrangement, dictionary catalogue, special bibliographies and other modern facilities and aids for convenient use. The shelves are accessible to readers, except in the special collections. All the leading periodicals, including many foreign ones, and the most important transactions of learned societies are received currently.

Eventually the working library of the Language and Social Science Departments of the College of Arts and Sciences and the Engineering Library will be transferred to the Waterman Building.

All the administration is directed toward making the Library the active center of the intellectual life of the University and an auxiliary to every teaching department. Attention is given to directing the students how to use the catalogues, reference books and special bibliographies, and in general research work. Books selected by professors for supplemental reading in connection with class work are "reserved" on special shelves for students in those classes.

The Library is open from 8.15 in the morning to 9 in the evening and from 2 to 6 on Sunday afternoons in term time, with shorter hours during vacations. The privileges of the Library are granted freely to those not connected with the University and books are loaned frequently to high schools and to persons living at a distance. The students also have the use of the Fletcher Free Library of the city, a collection of about sixty thousand volumes of such selection and so liberally administered as very helpfully to supplement the University Library.

Among the special collections of the Billings Library is the private collection of George Perkins Marsh, former resident of Burlington, author, scholar, and United States Minister, first to Turkey and later to Italy. This comprises twelve thousand eight hundred and eighty-two volumes and is especially rich in philology, European history and literature, and physical geography. The collection is contained in a handsome room built in 1887 especially to receive it.

The Hawkins Collection, given to the University by the late Gen. Rush C. Hawkins, is also a notable one, containing several thousand books and pamphlets relating to the Civil War period. This collection has been greatly augmented by the gift of Gen. O. O. Howard's valuable military library, the gift of his son, Harry S. Howard.

The Library is also in possession of interesting collections of rare and valuable early books, first editions, manuscripts, and autographs. These will be preserved and displayed in a Treasure Room in the Waterman Memorial Building following its completion in September, 1941.

On the walls of the Library hang portraits of Ira Allen, the founder of the University; Frederick Billings, the donor of the building; several of the Presidents and others intimately associated with the life of the institution.

Supplementing the extensive collection of the works of Vermont authors, books descriptive of Vermont and those with Vermont imprints which are in the Billings Library, the University has received and catalogued the valuable Vermont library of the late James B. Wilbur. The books, pamphlets, maps, manuscripts and photostats in this collection are deposited in the Wilbur Room of the Fleming Museum. Gifts for the Vermont collection always are welcome.

The Medical Library containing about ten thousand volumes is in the College of Medicine building. One hundred sixty current medical journals are on file and loose-leaf systems of medicine and surgery are kept up to date. This Library is open from 9 a.m. to 5 p.m., Saturdays 9 to 12 noon. It is open on Tuesdays and Fridays during the evening.

The Agricultural Library is in Morrill Hall. It contains several thousand volumes and many thousand pamphlets and journals dealing with agriculture, horticulture and veterinary science. Departmental libraries are located in the offices of the station agronomist, animal husbandman, agricultural economist, botanist, chemist, regulatory chemist, horticulturist, as well as in the Extension Service Buildings.

In addition to the main collections of books in the Billings, Marsh, Wilbur, Agricultural and Medical Libraries there are departmental libraries in the Williams Science Hall, the Engineering Annex, and the Old College Building.

THE FLEMING MUSEUM (*Erected 1931*)

The Robert Hull Fleming Museum was made possible by the generosity of the late James B. Wilbur of Manchester, Vt., of Miss Katherine Wolcott of Chicago, Ill., and of six other friends of the University. It is named in honor of Miss Wolcott's uncle, a graduate of the class of 1862.

The south wing of the building, known as the Wilbur Room, was built especially to receive the collection of books, documents and maps that were presented to the University by the late James B. Wilbur. The Fleming Room, adjoining the beautiful two-storied Entrance Hall, is given over to the treasures of art gathered by Mr. Fleming during many years of travel.

The exhibition rooms in the Museum contain frequently changed collections in geology, mineralogy, paleontology, all branches of zoology, ethnology and archaeology, and early Vermont furniture, utensils and costumes. The Bird Room, Primitive Arts Room and Cannon Room are noteworthy.

The art collections of the Museum consist of paintings, engravings and sculpture. They have recently been supplemented by many reproductions of paintings. The collections include one thousand photographs, prints and engravings representing every school of art. The Carnegie Art Reference Set, a teaching collection of over two thousand books, photographs, textiles and prints, to which additions are frequently made, is an important part of the Art Library.

Many loan exhibitions are secured from individuals, other museums and galleries by the Fleming Museum Art Association, which cooperates in all art activities, including lectures on art. Fifteen to twenty different exhibitions are held in the Art Gallery each year.

Programs of entertainment and instruction are offered each Saturday to the young people of the city. The facilities and exhibits of the Museum are made available to all the schools of Vermont and are extensively used.

The staff is supplemented by a very large amount of volunteered aid, much of it continuous.

The Museum is open every day of the year, except Thanksgiving, Christmas and New Year's Day, from two to five o'clock. During the summer the building is also open to the public on week day mornings.

THE SEISMOGRAPH STATION

The Seismograph Station, in operation since November, 1932, and run in connection with the Department of Geology, is located in an underground vault connected with the Fleming Museum. The equipment consists of two Milne-Shaw seismographs and a short period Benioff vertical seismometer. The observations of the Station are sent regularly to the Seismology Branch of the Coast and Geodetic Survey at Washington.

THE COLLEGE OF ENGINEERING BUILDING (*Erected 1891*)

In the Engineering Building are located offices, lecture and drafting rooms, the civil engineering laboratories equipped for the testing of materials and for experimental work in hydraulics, and the various mechanical engineering laboratories, adapted to studies in air conditioning, aerodynamics, fuels, industrial engineering, internal combustion engines, metallurgy and steam power. The central heating plant, which is an annex to this building, is used by the Department of Mechanical Engineering for experimental purposes. The cement and highway materials testing laboratory is located in the basement of an adjacent building.

THE WILLIAMS SCIENCE HALL (*Erected 1896*)

In this fireproof building, given to the University by the late Dr. Edward H. Williams of Philadelphia, are classrooms and laboratories of the Departments of Chemistry, Physics, Botany, Zoology, Geology and Electrical Engineering, and also a reference library of over three thousand scientific books and periodicals pertaining to these departments. After September, 1941, the electrical engineering laboratories will be located in the Waterman Building.

The Herbaria of the University are kept in this building. The early collections of Professor Joseph Torrey, supplemented by those of Charles G. Frost, J. Lewis Dutton and Cyrus G. Pringle, comprise more than two hundred thousand specimens. The Pringle Herbarium is unsurpassed in quality by any collection and in size it ranks as one of the largest collections in America.

THE WATERMAN MEMORIAL BUILDING (*Dedicated 1941*)

This building was erected with funds received from generous trusts established by the late Charles W. Waterman of the Class of 1885 and was dedicated in October of the Sesquicentennial year of the University. The building is a memorial to Senator Waterman and his wife Anna R. Waterman. It furnishes facilities for administration, teaching, research and student activities. On the first floor there are offices for the President, Treasurer, Business Manager, Auditors, Accountant, Cashier and the Director of Admissions. The offices of the Deans of Women, the Dean of College of Arts and Sciences and the Dean of the College of Engineering, as well as accommodations for the Department of Education, the Summer Session, the Alumni Council, the Student Health Service, the News Bureau, Employment Bureau, the Land Records Office and student publications are also on the main floor.

The Department of Psychology has offices, classrooms and laboratories assigned to it on the second floor where there are also several classrooms used for instruction in Arts, Sciences and Engineering. One section of this floor is leased for the training of air pilots.

The building provides several well equipped laboratories for instruction and research in Electrical and Mechanical Engineering. The heating, ventilating, refrigerating, electrical and telephone services of the building include equipment used for instruction by the College of Engineering.

The University Store, with its supplementary departments for printing and duplicating, is conveniently located near a large cafeteria and soda fountain on the ground floor. Adjacent to these services are student lounges, game and meeting rooms. There are bowling alleys and pool tables for student use in the basement.

THE OLD COLLEGE BUILDING (*Erected 1825, Reconstructed 1883*)

The Old College stands on the site of the first college building begun in the spring of 1801 and destroyed by fire in 1824. Three brick buildings, built in line but about eight feet apart, were completed in 1830. The corner-stone of the South College was laid by General Lafayette on June 29, 1825. Shortly before 1850 the three buildings were joined by a continuation of their east and west walls, one structure resulting. The Old College, or the "Old Mill," as it has been called by many generations of students, assumed its present form in 1883, as the result of a gift by John P. Howard. Most of the classrooms and offices of the Social Science and Language Departments of the College of Arts and Sciences, the University Stores, the offices of the Dean and the Dean of Women which are now located in this building will be accommodated in the Waterman Building in September, 1941. From the tower of the Old College Building a magnificent view of the Champlain valley and the Adirondack and Green Mountains may be obtained.

THE MEN'S GYMNASIUM (*Erected 1901*)

The main recreation floor of the Gymnasium for Men is one hundred twenty feet long and sixty feet wide. In addition to the usual facilities there are special rooms for handball, squash, boxing, wrestling and corrective exercises.

The north side of the building is occupied as an armory by the student battalion. The shooting galleries and military storerooms are located in the basement. Offices for the Commandant, the Athletic Director and the Professor of Physical Education for men, and the Graduate Manager of Athletics are provided.

Attached to the Gymnasium building is an extension, one hundred and twenty feet by one hundred feet, with glass roof and dirt floor. This was erected in 1911 and is used as a drill hall and baseball cage, as well as for indoor track, tennis and badminton.

MORRILL HALL (*Erected 1907*)

This building, a memorial to Justin Smith Morrill, for nearly forty-four years in continuous service as Representative or Senator from Vermont, and the father of the Land-Grant Colleges and Universities of the United States, was erected by the State for the uses of the College of Agriculture. It provides class and laboratory rooms for instruction in technical Agriculture and Home Economics, the Agricultural Library, consisting of about six thousand volumes, and the administrative offices of the College of Agriculture. It also provides some of the offices and the research chemical laboratory of the Agricultural Experiment Station.

THE COLLEGE GREENHOUSES (*Erected 1911*)

Three greenhouses with head house, located in the rear of Morrill Hall, provide facilities for instruction in Botany, Plant Physiology, Pomology, Floriculture, Greenhouse Management and Forestry, and for experimental work in Plant Pathology, Horticulture, Botany, Forestry, and Genetics.

EXPERIMENT STATION ANNEX (*Erected 1829, Remodeled 1891, 1925*)

This building, located at 489 Main Street, was erected in 1829, remodeled in 1891 and 1925, for use by the Medical College. It was devoted to the use of the Experiment Station for other purposes in 1887 and is occupied by its departments of Animal and Dairy Husbandry, Agricultural Economics, Home Economics and Regulatory Work.

AGRONOMY BUILDING (*Erected 1809, Acquired 1906*)

This building, now located at 590 Main Street, was built in 1809. It was moved from the present site of Morrill Hall in 1906, served as a farm boarding house for over twenty years, and in 1929 and 1930 was remodeled for use by the Department of Agronomy of the Experiment Station. The building also contains a laboratory and classroom used for collegiate instruction in Agronomy. A small greenhouse for agronomical research is attached. Some of the Agricultural Extension offices are temporarily located in this building.

HOME MANAGEMENT HOUSE (*Acquired 1911*)

This building is located at 26 Summit Street and is used as a practical laboratory for home management by the Home Economics Department. The Home Economics students live at the house during a portion of the senior year. The work performed by the students is supervised and constitutes a part of the required laboratory work with credit. Board to such students, during the period of residence in the house, is charged at five dollars per week. The Home Economics Department occupies an annex in the rear of this building which is used for instruction and for the laboratory testing of pre-school children.

AGRICULTURAL EXTENSION BUILDINGS

The building located at 481 Main Street, just west of the Experiment Station Annex, is occupied as an administration building by the Agricultural Extension Service. Parts of the buildings at 43 South Prospect Street and 129 North Prospect Street are used by the agricultural economics department and the animal industry departments of the Extension Service. The office of the extension agronomists is in the Agronomy Building.

AGRICULTURAL FARM BUILDINGS (*Erected 1891, Reconstructed 1940*)

Buildings on the University Farm include a dwelling house, 634 Main Street, a new dairy barn in which a number of modern building materials and structural designs are being tested, a barn for investigation and research pertaining to dairy cattle, and other buildings including a horse barn, stock judging arena, and swine, poultry, hay, and tool houses.

THE MUSIC BUILDING (*Acquired 1940*)

This building is located at 70 Williams Street, and provides offices, studios, recitation and practice rooms for the Department of Music. It also houses the Carnegie College Music Set, consisting of an electric phonograph, about 900 phonograph records, about 100 books on music and many scores, which are available for use by all members of the University.

THE MABEL LOUISE SOUTHWICK MEMORIAL (*Erected 1936*)

This building is located on the Redstone Campus and serves as a social center, recreation and Student Union building for the women of the University. It is a memorial to the late Mabel Louise Southwick of the class of 1905.

The building provides instructional and recreational facilities for the Department of Physical Education for Women. The Recreation Hall is fully equipped and the large stage has theatre lighting circuits and scenery for the productions of the Dramatic Clubs. Above this room is a Social Hall with a stage which is used for lectures, musicals, dances, and other social gatherings. The equipment includes sound motion picture projectors and an auditorium radio-victrola.

There are also reading and reception rooms, a dining room and kitchen for the use of the women students, and committee rooms for various student organizations. A small but attractive hostess apartment is also provided.

The social life of the women of the University is planned to center at Southwick where a Social Director, who is a member of the staff of the Dean of Women, plans and supervises various social programs. Student hostesses are regularly on duty to assist the Social Director and to show visitors about the building. A series of informal teas, the after dinner coffee hour on alternate Sundays, tea dances, indoor games and musicals are all included on the Southwick program, to most of which both men and women students as well as members of the faculty are invited. The dramatic and many other college clubs use the facilities of Southwick for presentations and meetings.

RESIDENTIAL BUILDINGS

PROFESSORS' HOUSES AND APARTMENTS

Through the generosity of the late Hon. John H. Converse and the late Dr. Edward H. Williams, both of Philadelphia, three houses for professors or other suitable tenants were erected in 1891. Two of these houses situated at 25 Colchester Avenue and 475 Main Street are now occupied as professors' residences. The house at 481 Main Street is the headquarters of the Agricultural Extension Service, which also occupies the first floor of 43 South Prospect Street as an annex.

Redstone Lodge on the Redstone Campus is leased as a professor's residence. One-half of a duplex house, 41 South Prospect Street, is occupied as a professor's residence.

The Benedict Apartments and the Prospect Apartments, located, respectively, at 29-33 and 151-155 South Prospect Street, are owned by the University and rented to employees.

DORMITORY FOR MEN

CONVERSE HALL (*Erected 1895*)

Converse Hall Dormitory is built on the crest of an elevation east of the College Row. The three sections of the building enclose three sides of a court which opens to the west.

The hall was the gift of the late John Heman Converse and is constructed in the Collegiate-Gothic style, of blue Rutland marble. The three sections contain suites for the accommodation of about eighty men.

Converse Hall is open to all male students who are regularly enrolled in the University. It is particularly recommended to the men of the freshman class. Each study is provided with book case, table and chairs and each sleeping room is supplied with chiffonier, single beds, wire springs, mattresses and pillows, the student himself supplying blankets and linen. Single suites, consisting of a study and a sleeping room, rent for one hundred and seventy-five dollars for the college year. Suites for two occupants, consisting of a study and two separate bedrooms, rent for one hundred thirty-five dollars for each occupant. These prices include heat, light and janitor service.

Students making the dormitory their home are expected to comply with the institutional regulations. The building is in charge of a custodian and his wife who acts as matron of the dormitory. The University regulations, which are principles rather than rules, are carried out by the student

occupants under the guidance of a group of upperclassmen selected as advisers.

An advance fee of five dollars, which will be applied on rental charges, is required of all men assigned to dormitory rooms. Suites in Converse Hall are rented for the entire college year. *Students who engage quarters in the dormitory and who enroll in college are liable for the rental charge if they remain in college during the year.* Students are released from this charge only if an acceptable substitute is provided. The room rent is pro-rated to students who leave the University during the rental year.

The Waterman Building Student Union and Cafeteria has provided recreational and dining services for students since September, 1941.

WOMEN'S DORMITORIES AND DINING HALLS

All women students enrolled in undergraduate courses are required to procure rooms approved by the University. Applications should be made early to the Dean of Women. Rooms in college dormitories are rented for the entire year. An initial payment of five dollars is required to make an advance reservation. This is applied later on the room rental. Dormitory rooms are not supplied with bed linen (except mattress pads) or blankets, rugs, window curtains or easy chairs. College houses open on the Monday preceding enrollment and students should not plan to come to the dormitories before that time.

The prices of rooms are uniform in all dormitories. Double rooms are \$135 per year per occupant, single rooms are \$175. Students living in college owned dormitories board at Grassmount or Robinson Hall. The first meal of the college year is dinner at six o'clock on the Monday preceding enrollment. No meals are served to students who continue in residence in the dormitories during the Thanksgiving recess. In the dining halls for women at Grassmount and Robinson Hall, the price for board is one hundred thirty-seven dollars and fifty cents a semester, payable in October and February.

There are opportunities for a limited number of women students to live under a cooperative boarding plan in Sanders Hall, Allen House, Dresser Cottage and Claggett House.

Those who can not be accommodated in the dormitories will be assigned rooms in private houses, which are subject to the approval of the University. An effort is made to assign rooms so that in each house there may be a well-rounded group with varied interests and strong upperclass leadership.

No final choice of rooms may be made without the approval of the Dean of Women. Enrollment is not permitted until this approval has been

given. Therefore any student who has not arranged for her residence in advance should confer with the Dean or Assistant Dean of Women immediately upon arrival.

Although every effort is made to find suitable employment for those who feel the necessity of earning part of their room and board, the opportunities for this type of work are very limited and experience has repeatedly proved that it is difficult and in many cases impossible for freshmen to perform such employment satisfactorily without lowering scholastic records and endangering health through lack of exercise and recreation. Therefore the University earnestly advises freshman women not to undertake an employment burden sufficient to defray any major part of living expenses.

REDSTONE AND ROBINSON HALL (*Acquired 1921*)

Redstone and Robinson Hall, dormitories for women, are located on the Redstone Campus on South Prospect Street. About sixty women are accommodated in single and double rooms. Robinson Hall provides dining facilities for students rooming in these two dormitories and Slade Hall. The Assistant Dean of Women resides in Redstone.

SLADE HALL (*Erected 1929*)

Slade Hall, located on Redstone Campus near Robinson Hall, was the gift of the late Mrs. William Gerry Slade of New York, in memory of her daughter, Harriet Slade Crombie. This dormitory has accommodations for twenty-four young women, each occupying a single room.

GRASSMOUNT (*Acquired 1895*)

Grassmount, built in the first years of the last century, was the first dormitory and dining hall for the women of the University. It is situated at 411 Main Street, near the corner of Summit Street, one block west of the Campus. Grassmount is a noted example of fine Georgian-Colonial architecture.

ROBERTS HOUSE (*Acquired 1940*)

This residence at 232 South Williard Street was acquired in 1940 as a legacy from the estate of the late Minnie Lyman Roberts, whose husband, the late Robert Roberts, was an alumnus and for many years a trustee of the University. It houses eighteen girls who have their meals at the Grassmount dining room.

PROSPECT HALL (*Leased 1937*)

This residence, located at 42 North Prospect Street, provides room and board for thirteen women. Both single and double rooms are available.

GATES AND WARNER HOUSES

These are conveniently located dormitories, privately owned, but operated under University direction. Gates House, at 381 Main Street, provides rooms for nineteen girls and Warner House, at 96 Colchester Avenue, accommodates eighteen. There is a dining service in each house.

COOPERATIVE HOUSES

The University now owns four cooperative dormitories. Sanders Hall, located at 369 College Street, was acquired in 1935; Allen House at 461 Main Street in 1936, Dresser Cottage at 49 Mansfield Avenue in 1940 and Claggett House at 301 South Willard Street in 1941. Allen House accommodates twenty-six girls, Sanders Hall and Claggett House twenty each, and Dresser Cottage has rooms for eight with six girls from a nearby house coming in for meals. Under this cooperative plan the expense of board is reduced by the use of carefully planned low-cost meals which are served and prepared by the girls under the supervision of the House Director. Selection of students for these houses is made by the Dean of Women on the basis of character, scholarship, and relative need. Because of the great demand for assignment to these houses application should be made before June 1.

THE INFIRMARY

An Infirmary for women students, isolated from the dormitory, is maintained in Robinson Hall. A resident practical nurse is in constant attendance thus assuring a student such care as she could not have in her own room. The Infirmary is prepared to take care of lighter cases of illness but has not the equipment necessary for patients requiring hospital treatment or having contagious diseases. For girls living in college dormitories no charge is made. For those living outside a nominal fee of fifty cents a day for room, board, and attendance is charged. Students living in dormitories, if ill, will be moved to the Infirmary at the discretion of the Infirmary Director or of the House Director.

UNIVERSITY GROUNDS

THE CAMPUS

The Campus of the University is a beautiful tract of land containing about seventy-five acres, situated on the crest of a hill on the eastern edge of the city. The Campus itself is bounded by South Prospect Street on the west, by Colchester Avenue on the north and by Main Street on the south. On an elevation to the east are Converse Hall Dormitory for

Men, the Mary Fletcher Hospital and the large farm of the College of Agriculture with its numerous buildings. The Back Campus, which serves as a playing field and parade ground, extends from Converse Hall and the Mary Fletcher Hospital toward the west as far as University Place on which is located "University Row." A large skating and hockey rink is located near the Men's Gymnasium. The portion of the Campus between University Place and South Prospect Street is known as "The College Green" and is one of the most beautiful college parks in America. Sherry Fry's statue of General Ira Allen, founder of the University, and J. Q. A. Ward's statue of General Lafayette, who laid the cornerstone of South College in 1825, occupy prominent places on the Green. The former was presented to the University by the late James B. Wilbur, the latter by the late John P. Howard.

REDSTONE CAMPUS

The University owns about one hundred acres of land south of the College Green, which is being developed as a Residence Campus for Women. The property affords excellent views of the Green and Adirondack mountains and Lake Champlain. The Mabel Southwick Memorial Student Union and Recreation Building, a dining hall and three dormitories are now located on this Campus. The recreation field and tennis courts for women are also on this property near Williston Road.

CENTENNIAL FIELD

Centennial Athletic Field was acquired during the one hundredth anniversary year of the University. It has entrances on East and Colchester Avenues near the Campus. The eleven acres of level land provide playing fields for football and baseball, and oval and straight-away cinder running tracks. The concrete baseball stands and bleachers seat four thousand. The capacity of the two football stands is seven thousand.

Six enclosed tennis courts, a track weight field, and supplementary parking space are located near the East Avenue entrance.

THE UNIVERSITY FARM

The University farm, three hundred acres in extent, adjoins the Campus and is a part of the educational plant. Its horse and cattle barns, poultry houses, and other farm buildings, its registered Percheron horses, Ayrshire, Guernsey, Holstein and Jersey cattle, Duroc-Jersey swine, and its field and forest holdings, are used for instructional and experimental purposes in the College of Agriculture.

VERMONT RESEARCH FOREST

The Vermont Research Forest is located in Jericho, fourteen miles east of the campus, one mile from Fay's Corners on Route 117. It was trans-

ferred there from South Burlington in 1941, in order that its former location could be used to expand the municipal airport. An abandoned, worn out farm of 365 acres is being devoted to research in farm woodlot management. With 250 acres of second-growth white pine and mixed hardwoods, 25 of sugar bush, 50 of new plantations, and 40 of abandoned pasture in sandblow and grassland, the area offers a diversity of species of varying ages which provide exceptional opportunities to graduate students and experiment station workers. An old farm house has been modernized for resident workers' living quarters, a laboratory building has been built, a forest tree nursery instituted and complete forestry research equipment acquired. The forest is open June 1-September 30 with the field workers in residence.

FEES

REGISTRATION FEE

The payment of a Registration Fee of five dollars (\$5.00) is required of all new regular session applicants. This fee will not be accepted by the University until admission credentials have been found to be satisfactory and, for women, until rooming arrangements have been approved by the Dean of Women. The acceptance of the Registration Fee is confirmation of the selection of the applicant for actual enrollment and an assurance that teaching and rooming accommodations have been provided. Payments prematurely made will be refunded to those not accepted for any reason. No refund will be made to those who are accepted and do not enroll. This fee should not be confused with the room deposit described on page 56.

TUITION FEES

THE COLLEGE OF ARTS AND SCIENCES

The amount due and payable at the opening of each semester in the Classical, Literary Scientific, Social Science, General Science, Pre-Medical, Secondary Education, Chemistry and Business curricula is one hundred seventy-five dollars (\$175). In the Secretarial and Commercial Teaching curricula extra courses, open only to students regularly enrolled in these curricula, are required. The semester charge for this supplementary specialized training is \$17.50, making the tuition \$192.50 per semester. The tuition charge for partial enrollment in the College of Arts and Sciences is \$11.75 per semester hour.

THE COLLEGE OF ENGINEERING

The amount due and payable at the opening of each semester in the Civil, Electrical and Mechanical Engineering curricula is one hundred seventy-five dollars (\$175).

THE COLLEGE OF AGRICULTURE

The amount due and payable at the opening of each semester in the Agricultural and Home Economics Curricula is one hundred seventy-five dollars (\$175).

THE DEPARTMENT OF EDUCATION

Vermont students who are enrolled in the Elementary Education curriculum receive an annual tuition credit of two hundred dollars (\$200) from the State Board of Education and a special scholarship from the University of one hundred fifty dollars (\$150), provided an agreement is signed to teach in the State of Vermont one year for each year those scholarships are accepted. Non-residents who sign the same agreement may be enrolled to fill the quota of one hundred sixty-five students. They will receive a State scholarship credit of two hundred dollars (\$200) for the year, making the tuition seventy-five dollars (\$75) for each semester.

THE MUSIC EDUCATION CURRICULUM

Students who enroll in the Music Education curriculum after September 1, 1941, will be liable for tuition of \$175 per semester since State Elementary Education Scholarships are no longer available. These students are, however, eligible for endowed and special scholarships for which application must be made annually. Vermont students who were enrolled in this curriculum as regular full-time students in Music Education during the college year 1940-1941 will receive State and University aid amounting to the full tuition charge during the normal number of college years necessary to complete the requirements for the degree. No such scholarships will be available after the college year 1943-1944.

Courses in Applied Music, in accordance with the requirements of the curriculum, are charged at the scheduled rates for those who were enrolled during 1940-1941. One-half this rate will be charged those who do not have State Scholarship aid.

THE COLLEGE OF MEDICINE

Vermont students in the Medical College are charged two hundred dollars (\$200) per semester for the tuition fee. The fee for non-residents is two hundred seventy-five dollars (\$275) each half year. Students in medicine who are allowed to repeat any year are charged full tuition for the repeated year.

SUMMER QUARTER TUITION CHARGES

The tuition charge for the Summer Quarter is expected to be \$140 for full time or \$12.00 a semester hour, if less than 12 semester hours are taken.

STUDENT ACTIVITY FEES

All classified students in the College of Arts and Sciences, the College of Engineering and the College of Agriculture pay at the opening of each year for the ensuing college year a fee of thirty-five dollars (\$35), which is apportioned for the support of all recognized student activities in these colleges. The fee is also charged to those first-year medical students who have entered that college on the minimum preparation of three years in the College of Arts and Sciences of the University, unless four payments of the fee have been previously made. The Osler Club Fee of three dollars and fifty cents (\$3.50) is payable annually at the opening of college for the ensuing college year by all students in the College of Medicine. The Osler Fee is derived from the Student Activity Fee for those first-year medical students who are liable for the academic Student Activity Fee.

DEGREE FEES

The fee for the Baccalaureate Degree, payable just prior to graduation, is ten dollars (\$10.00); for the Master's Degree, the technical Degrees of C.E., E.E. or M.E., and the Doctor's Degree the charge is twenty-five dollars (\$25.00).

LABORATORY, STUDIO AND PRACTICE TEACHING FEES

The following schedule of fees applies to students who enroll in these courses. They represent a partial payment of the cost of supplies and materials consumed, depreciation and replacement of apparatus and the expense of providing the special facilities incident to the courses. Breakage charges.

SUBJECTS	1ST HF.	2ND HF.
Agriculture:		
Agronomy 1	\$ 2.50	\$ 2.50
Animal and Dairy Husbandry 8, 13, 14, each.....	2.50	.....
Animal and Dairy Husbandry 9, 10, 11, 12, 15, each		2.50
Poultry Husbandry 1		2.50
Agricultural Education 5, either 1st or 2nd half	10.00	.....
Agricultural Education 10		2.50
Agricultural Engineering 1	2.50	.....
Agricultural Engineering 2		2.50
Art 1 (Elementary Education 338)	1.00	1.00

Art (Applied Art 1 and 2) each	1.00	1.00
Art (Free Hand Drawing)	1.00	1.00
Botany 1	2.50	.....
Botany 2, 3, 4, each	2.50	2.50
Botany 5 .....	.....	2.50
Botany 6 (Morphology)	2.50	2.50
Botany 7 (Seed Plants) .....	.....	2.50
Botany 8 (Cytology) either Semester	10.00	10.00
Botany 9 .....	.....	2.50
Botany 10 (Pathology)	2.50	.....
Botany 11, 12, 13, each	5.00	.....
Botany 14 and Zoology 14	2.00	2.00
Botany 109	5.00	5.00
Chemistry 1, 21, 22, 23	7.50	7.50
Chemistry 2 (Qualitative)	2.50	.....
Chemistry 3 (Quantitative) .....	.....	5.00
Chemistry 4 (Adv. Quantitative)	5.00	5.00
Chemistry 105 (Physical)	2.50	2.50
Chemistry 10 (Elementary Organic)	5.00	5.00
Chemistry 112 (Advanced Organic)	10.00	10.00
Chemistry 15 (Agricultural) .....	.....	2.50
Chemistry 19 (Home Economics Organic)	2.50	.....
Chemistry 20 (Foods) .....	.....	5.00
Chemistry 24 (Biochemistry)	5.00	.....
Economics 63 (Practice Teaching) .....	.....	10.00
Education 8 (Practice Teaching) .....	.....	10.00
Education 9 (Measurements)	2.00	.....
Education 10 (Measurements) .....	.....	2.00

SUBJECTS

	1ST HF.	2ND HF.
Elementary Education 332 (Practice Teaching)	2.00	.....
Elementary Education 333 (Practice Teaching) .....	.....	2.00
Elementary Education 337 (Art)	1.00	1.00
Elementary Education 338 (Art)	1.00	1.00
Elementary Education 339 (Observation)	2.00	2.00
Elementary Education 340 (Industrial Arts)	1.00	1.00
Engineering Courses per laboratory hour	2.50	2.50
Genetics	2.00
Geology 1	2.50	2.50
Geology 3	2.50
Geology 4	2.50	2.50
Geology 6	5.00	5.00

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Geology 7	2.50
Geology 8		2.50
Geology 108	5.00	5.00
Home Economics:		
Clothing and Textiles 11, 21, 32, 40	2.50
Clothing and Textiles 20, 30, 41, 42		2.50
Home Economics Education 41, either semester	10.00	.....
Food and Nutrition 20	5.00	5.00
Food and Nutrition 330, 41	5.00	.....
Food and Nutrition 32, 40		5.00
Food and Nutrition 42	2.50	.....
Horticulture 1, 2, 4	2.50	.....
Horticulture 5		2.50
Mineralogy 1	3.00	.....
Physics 1, 102, 104, 105, 106, 107, 108	5.00	5.00
Shop Practice, per laboratory hour	2.50	2.50
Zoology 1		4.00
Zoology 2	4.00	4.00
Zoology 3	4.00	.....
Zoology 4		4.00
Zoology 5 (Ecology)	2.50	2.50
Zoology 6 (Comparative Anatomy)	5.00	5.00
Zoology 7 (Embryology) either Semester	4.00	4.00
Zoology 8 (Entomology) .....		.....
Zoology 13 (Human Physiology) either Semester	2.50	2.50
Zoology 14 and Botany 14	2.00	2.00
Zoology 106 (Primate Anatomy)	announced annually	

EXPENSES

THE ACADEMIC COLLEGES

The total annual expense for Registration and Tuition in the college of Arts and Sciences is \$355. For the Secretarial and Commercial Teaching Curricula it is \$35 extra. In a few curricula laboratory courses are required for which there are specific fees to cover the cost of materials consumed. The cost of text books and supplies varies but the average expense is about twenty dollars (\$20) for each year. Each student pays a Student Activity Fee of \$35 which covers athletics with free admissions to home games, class and yearbook taxes, subscription to the University newspaper and the support of recognized student organizations and activities. This

total, without laboratory fees, is four hundred ten dollars (\$410). In the College of Engineering the cost of drawing instruments and the laboratory fees increase the average cost of instruction to about \$440. In the College of Agriculture, since several laboratory courses are required, the expense is about the same.

The above expense is reduced by the amount of any scholarship earned or secured. Tuition is billed by semesters, but arrangement for installment payments may be made with the Cashier. The Activity Fee is due in full for the year at the opening of college. Books and supplies are sold at the University Store on the Campus. Any fees for laboratory courses are billed in October and February for the semester current.

THE COLLEGE OF MEDICINE

The tuition in the College of Medicine is four hundred dollars for residents of Vermont, five hundred fifty dollars for non-residents. There are fifty State Scholarships of one hundred dollars each, reducing the tuition of approximately one-half the enrollment of Vermont students to three hundred dollars. The Osler Club Fee of three dollars fifty cents replaces the Student Activity Fee required in the Academic Colleges. First-year students in the College of Medicine who are liable for a fourth payment of the Academic Student Activity Fee will not be required to pay the Osler Club Fee in addition as it will be covered from the Activity Fee payment. There are no laboratory fees, but a breakage deposit of twenty dollars is made by each student at the time of first enrollment. This deposit is reestablished in its original amount at the beginning of each succeeding year. The balance to the credit of the student at the end of the fourth year is applied toward the fee for the degree which is twenty-five dollars. Textbooks and supplies will cost from fifty to one hundred dollars per year. The other expenses may be estimated from the statements in the preceding section.

SPECIAL FEES IN THE COLLEGE OF ENGINEERING

ENGINEERING CAMPS—The fee for the Engineering Summer Camps is \$15.00 per session.

SOLID GEOMETRY—The fee for Solid Geometry in the College of Engineering is \$10.00 for the special course. The course is required only of students not presenting this subject for entrance, but may be recommended to others.

FEES FOR APPLIED MUSIC

PIANO, ORGAN, VIOLIN AND SINGING

One lesson a week	\$35.00 per semester
Two lessons a week	60.00 per semester
Use of practice room and piano one hour a day	5.00 per semester
Use of organ one hour a day	25.00 per semester
Class lessons in diction for singers, one hour a week	15.00 per semester

Private lessons are approximately one-half hour in length, fifteen being given in each semester. Students who enroll as regular full-time students in the Music Education curriculum, paying full tuition, will be charged one-half the regular rates for applied music for such courses as are required in the curriculum. All others pay the above scheduled charges. The Practice Room charges apply to all students.

MILITARY UNIFORM

Freshman men are required to purchase a uniform for Military Science. This is charged on the bills of the first semester at the contract price which has recently been about twenty-seven dollars. The Government rebate to R. O. T. C. students is approximately eighteen dollars.

ROOM AND BOARD FOR MEN

The price of double suites in Converse Dormitory for men is seventy dollars for the first semester and sixty-five dollars for the second. Single suites and single rooms are twenty dollars more per semester. A five-dollar deposit is required for assignment to a dormitory room, the balance of the yearly rate being billed in two equal amounts in October and February. Information regarding rooms in Converse Hall may be obtained from the Registrar.

Board at the Cafeteria in the Waterman Memorial is furnished in itemized combinations which are equivalent to table board at six to seven dollars per week. (For rooming and boarding arrangements for women see page 56.)

The average total expense of a college year without allowance for scholarship credits or income from employment and without estimating personal expenses or cost of transportation is about \$900.

SUMMER SESSION TUITION

Enrollment Fee	\$ 2.50
Tuition Fee per semester hour beginning 1942	10.00

The tuition of Vermont teachers is paid for certain courses, by the State Board of Education.

PAYMENT OF BILLS

The Registration Fee of \$5.00 is collected prior to the opening of college from all accepted applicants who have never previously been enrolled in a regular session.

Tuition is payable semi-annually in advance, and no student will be admitted to enrollment at the beginning of a semester until he presents a receipt from the Comptroller showing that bills for the semester have been paid. The Student Activity Fee is payable in advance at the opening of college for the entire year. For convenience room rent, board and laboratory fees, though strictly payable in advance, are collected soon after the opening of each semester for the half-year current.

Students temporarily absent from the University are charged as if present. Bills are payable within thirty days after date, but a special extension may be arranged with the Cashier when necessary.

REFUNDS

To students withdrawing from the University during a semester, tuition rebates are made in accordance with a definite schedule. Up to the date of the closing of registration in the first semester and during the first week of the second semester the full amount paid is refunded. Thereafter rebates are made at ten per cent less for each succeeding week. The Registration Fee and the Student Activity Fee will not be refunded in whole or in part.

EMPLOYMENT AND AIDS

An Employment and Rooming Bureau for men is conducted by the University, with offices in the Waterman Memorial. Each year it gives students many opportunities for employment, most of which, however, are temporary. The permanent positions are generally held by members of the three upper classes. These preferred opportunities are passed from one student to another and are seldom at the disposal of the Employment Bureau. Since Freshmen are at employment disadvantage all should be provided with resources sufficient to cover the essential expenses of the first year. Guaranties of employment in definite amount should not be expected.

The Dean of Women is in charge of the employment of all women students. Accordingly, such applications should be filed in that office.

Student employment under the Federal National Youth Administration has been provided during the years that these funds have been available. The average amount earned by each student assigned to a project is about ten dollars per month. Applications should be made to the National Youth Administration Director at the University.

Loan funds are apportioned annually to needy and deserving students who have been enrolled for at least one year in some college of this University. They insure continuity of training and present an opportunity to pay a part of the cost of college attendance at some future time. The notes are usually repaid during the productive years immediately following graduation.

LOAN FUND REGULATIONS

1. Loans are not usually granted to students below Sophomore classification.
2. Applications for loans must be made annually on the blank forms provided by the University.
3. Applications must refer to three persons of good standing who live at the home of the applicant and to whom the applicant is personally known, the preference being—one clergyman; one teacher, physician, or attorney; and one banker.
4. Loans are always conditional upon the applicant's established record of good scholarship and character.
5. Loans will be made to applicants for use only in the payment of *tuition, books, board and room rent*.
6. A voucher or receipt form supporting the items for which loans can be obtained must be filed with the Comptroller before any loan will become available.
7. Every application for a loan must be approved by the Dean of the college in which the applicant is a student.
8. An insurance policy, assigned to the University "as its interest may appear," is required to protect the Funds from losses that might arise in case the borrower should die before the payment of the loan.
9. Interest is charged at the rate of four per cent while the student is in the University and for one year after graduation and thereafter at the rate of six per cent.
10. The Comptroller may modify these rules in emergency.

ESTABLISHED LOAN FUNDS

THE JEDEVINE FUND was established by the late Allen E. Jeudevine as a memorial to his son, Cornelius A. Jeudevine, who died before his plan of entering college was realized. The specific purpose of this fund

is to aid poor and deserving young men in Vermont in obtaining the advantages of a liberal education. The fund now amounts to more than twenty-seven thousand dollars.

THE LONDON FUND was established by the late Susan W. Landon in memory of her brother, the late Sealand W. Landon, a member of the Class of 1874, who was for many years a well-known school principal. This fund, amounting to ten thousand dollars, is loaned for the benefit of deserving men and women and is subject to such regulations as may be established by the executive committee of the Board of Trustees.

THE MARY A. SHAW AND FANNY E. SHAW LOAN FUND was established by Mrs. Willard Pope, daughter of Mary A. Shaw, for the benefit of women students of the University and is subject to the usual conditions. The fund amounts to three thousand five hundred dollars.

THE CONSOLIDATED LOAN FUND is made up of the Class of 1924 Fund, the Class of 1925 Fund, the Emergency Loan Fund, the Julia I. Bates Fund, the Student Loan Fund, the B. F. Taylor Fund, the New York Alumni Fund of November, 1927, the Edmund Seymour Fund, the Kidder Loan Fund and the Lydia M. Blood Loan Fund. These consolidated funds amount to more than twenty thousand dollars.

THE STEVENS LOAN FUND, given in memory of the late Horace E. Stevens of the Class of 1870, is available only to students in the College of Engineering. The fund amounts to two thousand dollars.

THE MARY GRAVES FUND amounting to seven thousand two hundred dollars is available as a loan fund for women. It is the gift of the late Annette Fiske Mereness, in memory of her mother.

THE ASA FISKE LOAN FUND was established by the late Annette Fiske Mereness in memory of her father. It amounts to seven thousand two hundred dollars and is available to young women.

THE ANNETTE FISKE MERENESS LOAN FUND is for the benefit of women students subject to the regular University regulations. The fund amounts to more than twelve thousand seven hundred dollars.

THE CARBEE LOAN FUND of four thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the Class of 1873. This fund is for the benefit of deserving students of the College of Medicine subject to the usual rules governing loan funds.

THE MEDICAL COLLEGE LOAN FUND, amounting to thirty-three hundred dollars, is available for loans to students enrolled in the College of Medicine.

THE EMILY AND THOMAS TELFER LOAN FUND, established by Mrs. Thomas Telfer of Berkeley, California, is administered in accordance with the usual regulations. The fund amounts to twenty thousand dollars.

THE CLASS OF 1923 LOAN FUND, amounting to four hundred dollars, is available under the usual regulations to students of the Academic Colleges.

THE CHARLES D. AND CARRIE D. ORDWAY LOAN FUND was received at the death of the donor, Charles D. Ordway in 1933, invested in real and personal property which has since been in process of sale. The fund may amount to more than twenty-six thousand dollars. It is not at present available for loan to students.

THE MARY MAUD PATRICK LOAN FUND, amounting to two hundred eighty-five dollars, was established by Epsilon Sigma as a memorial to the late Mary Maud Patrick for the benefit of students in curricula in elementary education.

THE CLASS OF 1929 LOAN FUND was established in 1936 and is loaned to students of the academic colleges under the usual regulations. The fund amounts to more than five hundred dollars.

THE WOMEN'S STUDENT HEALTH COUNCIL LOAN FUND, amounting to about six hundred dollars, is loaned to women, designated by the Dean of Women and the Director of the Department of Physical Education for Women, under special regulations as to interest and repayment.

THE LADIES OF THE FACULTY LOAN FUND, amounting to eight hundred sixty dollars, is available to deserving and needy girls attending the University. The awards are made by a committee of the Ladies of the Faculty. Not more than fifty dollars is loaned to any one girl.

THE JOSEPH LAWRENCE HILLS LOAN FUND is in process of establishment by the friends of Dean Hills, who completed fifty years of service to the University in 1937. The fund now amounts to more than seventeen hundred dollars.

THE CHARLES H. BAYLEY LOAN FUND, amounting to ten thousand dollars, was established in 1937 and increased in 1939 by gifts of Laura Morse Bayley in memory of her husband.

THE HENRY BIGELOW SHAW LOAN FUND, amounting to three thousand dollars, was established in 1938 by Mrs. Willard Pope in memory of her brother, the late Henry Bigelow Shaw of the class of 1896. The fund may be loaned, under certain restrictions, to young men who have been graduated from the University and who wish to study at Harvard University Law School.

THE JOHN H. AND MARY A. BLODGETT LOAN FUND, amounting to thirty-five thousand dollars, was established in 1938 by bequest of Mary A.

Blodgett late of Rockingham, Vermont. It may be loaned to worthy Vermont boys and girls who are enrolled in any curriculum offered by the University. Preference is to be given to graduates of the Kurn Hattin and Warner Memorial Homes of Westminster and Saxtons River and to students who are residents of the town of Rockingham. The interest charge is to be four per cent during college residence and for one year after leaving and five per cent thereafter until the loan is repaid, subject, however, to modification in particular instances at the discretion of the Loan Fund Committee. Except as indicated above the usual regulations regarding administration of loan funds apply.

THE PHI BETA KAPPA LOAN FUND is in process of establishment. One hundred dollars is now available for loan to members of the senior class, preference being shown to applicants who are members of the society.

THE AMERICAN AGRICULTURIST RESEARCH FOUNDATION LOAN FUND, amounting to three hundred dollars, is available to students enrolled in the College of Agriculture. The awards are made on recommendation of the Dean of that College.

THE BERTHA M. TERRILL LOAN FUND is now in process of establishment. Nearly four hundred dollars is now available for loan to women enrolled in the University, preference being shown to those registered in the Home Economics curriculum.

THE BARNES FUND, established by bequest of the late Reverend Stephen G. Barnes, provides limited assistance to needy students who wish to attend inspirational religious conferences. The income of the one thousand dollar endowment is available as a loan or gift.

SCHOLARSHIPS

Endowed scholarships of the University, unless otherwise stated, are awarded annually by a special committee. *Applications for each college year should be filed with this committee on or before June 1. Any application received by the Chairman of the Committee subsequent to July 1 must be refused, regardless of its merits, as the scholarships are all appointed early in July.* As scholarship appointments are for one year only, renewal applications for the ensuing college year must be filed before June 1. No scholarship is available to an individual student for more than four years.

Endowed scholarships are rarely awarded to students who have not been previously enrolled at the University and they are never granted to students who are under warning for low college record or who are on probation for any reason.

If a student who has had the benefit of a scholarship shall be excluded or shall abandon his college studies before graduation, or shall leave the University to enter some other institution, he shall thereby become chargeable with the amount of tuition exemption represented by the scholarships used.

One-half of the scholarship is credited to the recipient at the beginning of each semester.

The endowment of additional scholarships would enable the University to extend its benefits to those who cannot otherwise afford the expense of a college course.

REGULAR ENDOWED SCHOLARSHIPS

Scholarships affording aid to students of limited means to the amount of fifty dollars have been endowed as follows:

THE LIZZIE P. ALLEN SCHOLARSHIPS, four in number, founded in 1900 by Lizzie P. Allen, a descendant of Ira Allen, founder of the University.

THE BARNARD SCHOLARSHIPS, six in number, founded in 1903 by the bequest of Rev. Lucius E. Barnard of the Class of 1853.

THE ELIZABETH F. BRIGHAM SCHOLARSHIPS, four in number, founded in 1910, available first for students from Brigham Academy.

THE DR. FRED CARPENTER SCHOLARSHIP. Preference is given to sons of clergymen and physicians.

THE CLASS OF 1861 SCHOLARSHIP, endowed and made available in 1891.

THE CLASS OF 1881 SCHOLARSHIP, endowed in 1937 by William H. Rice, a member of that class.

THE JOHN H. CONVERSE SCHOLARSHIP, founded in 1882, by John H. Converse, '61, of Philadelphia.

THE LIZZIE S. CONVERSE SCHOLARSHIP, founded by bequest of Sarah Elizabeth Converse, of Burlington, for poor and deserving students in the Classical Department.

THE CRAFTSBURY SCHOLARSHIP, founded in 1900, for the benefit of relatives of Mr. and Mrs. Nathan S. Hill, or residents of Craftsbury or Isle La Motte.

THE FRANCIS WHELPLEY HICKOK SCHOLARSHIPS, three in number, founded in 1902, by Mrs. Julia F. Hickok, wife of James W. Hickok of the Class of 1837, in memory of a son, a member of the Class of 1871.

THE LOUISA H. HOWARD SCHOLARSHIPS, five in number, founded in 1882, by Miss Louisa H. Howard, of Burlington.

THE CHARLES HOYT SCHOLARSHIPS, two in number, founded in 1904.

THE ISLE LA MOTTE SCHOLARSHIP, founded in 1884, by Nathan S. Hill, of Burlington, for the benefit of students from Isle La Motte and, failing such, from Craftsbury.

THE SARAH B. JACOBS SCHOLARSHIPS, seven in number, founded in 1882, by Mrs. Sarah B. Jacobs, of Boston, for the benefit of graduates of Bringham Academy only.

THE EDITH BLANCHE KIDDER SCHOLARSHIPS, five in number, were established by the late Joseph W. Kidder, and became available in 1936. These scholarships are for students in the College of Medicine, preference being shown to legal residents of Barre, Vt.

THE ROBERT J. KIMBALL SCHOLARSHIP, founded in 1900, by Hon. Robert J. Kimball, of Randolph, for the benefit of the students from Randolph. The Trustees of Randolph High School may make nominations for this scholarship.

THE CELINDA A. B. LILLEY SCHOLARSHIPS, ten in number, founded in 1880, for the benefit of women students.

THE CHARLES MUNSON MARSH SCHOLARSHIP, founded in 1893, for the benefit of students from Woodstock.

THE CHARLES P. MARSH SCHOLARSHIPS, five in number, founded in 1893 for the benefit of worthy young men and women from Windsor county.

THE EDWIN WRIGHT MARSH SCHOLARSHIP, founded in 1883, by Charles P. Marsh, of the Class of 1839, of Woodstock, in memory of his son of the Class of 1872, for the benefit, in the first instance, of students from the town of Weathersfield or from Windsor county.

THE MORETOWN AND MIDDLESEX SCHOLARSHIPS, two in number, founded by the Rev. E. C. Bass, '59.

THE JUSTIN S. MORRILL SCHOLARSHIP, founded in 1900, by Senator Justin S. Morrill, of Strafford, for the benefit of students from Strafford.

THE JOHN ORDRONAU SCHOLARSHIPS, nine in number, founded in 1909, for the benefit of students in the Colleges of Medicine, Arts, Engineering and Agriculture.

THE PARKER SCHOLARSHIP, founded in 1880, by Rev. Charles C. Parker, D.D., of the Class of 1841, in memory of himself and his son, Charles Edmund Parker, '67.

THE MINNIE A. PICKERING SCHOLARSHIPS, six in number, became available in 1938.

THE CHARLES W. RICH SCHOLARSHIP, founded in 1883, by Charles W. Rich, Esq., of the Class of 1836, of St. Albans, for the benefit of students in the College of Arts and Sciences.

THE SAMUEL SIDNEY SMITH SCHOLARSHIP, founded in 1896, by bequest of Mrs. Elisa Smith, of Burlington, in memory of her husband.

THE SOPHIA STOW SCHOLARSHIPS, two in number, endowed in 1937 by bequest of George L. Stow, '73, in memory of his mother, are available to students enrolled in the Classical Curriculum.

THE DANIEL WASHBURN SCHOLARSHIPS, nine in number, founded by Daniel Washburn, M.D., of Stowe, for the benefit of young men studying for the Christian ministry, or, in default of such applicants, of other deserving young men.

THE WESTFORD SCHOLARSHIP, founded in 1882, by Hon. Luke P. Poland, LL.D., of St. Johnsbury. This scholarship is available first to students from the town of Westford.

THE JOHN A. S. WHITE SCHOLARSHIP FUND, now yielding three scholarships, was established by a bequest from John A. S. White, of Northfield, for the benefit of needy students from Washington county or from the State of Vermont.

SPECIAL SCHOLARSHIPS

THE FRANKLIN BALDWIN SCHOLARSHIP FUND of more than five hundred dollars, established in 1915, yields an annual income of twenty-five dollars. This scholarship is available to students from Putney. The award is made on the basis of character and scholastic record.

THE REUBEN CLARK BENTON SCHOLARSHIPS, two in number, paying annually one hundred dollars each, established under the will of Reuben Clark Benton, of Minneapolis, Minnesota, a native of Waterford, Vermont, and a boyhood resident of Lunenburg, Vermont, for the benefit of students from Waterford, Lunenburg, or Minneapolis.

THE ADA S. BLAIR FUND of two thousand five hundred dollars, received in 1926 is held in trust for scholarships. The income is one hundred and twenty-five dollars per year.

THE MARCIA P. BROWN SCHOLARSHIP FUND amounts to eighteen thousand, nine hundred dollars, the income of which is "to be used and expended for the education of a young woman, who, so far as can be judged, promises to become a woman whose life will be of more than usual benefit to humanity and a credit to the University." If the young woman chosen does not need the entire income of the fund, the remainder may be

used for another young woman "who needs and merits it." It is stated in the terms of the gift that "this income is not to be given as a charity or a premium for poverty, but as an honor for ability and strength and elevation of character." The selection of the beneficiary or beneficiaries of this fund is left to a committee of awards consisting of the President of the University, the Dean of Women and one trustee to be elected by the Board of Trustees.

THE EZRA HOYT BYINGTON SCHOLARSHIP, eighty dollars annually, founded in 1905, for the benefit of students from Hinesburg or students bearing the name of Byington, Boynton, Hoyt, or Wortman, or in some way related to these families.

THE SARAH L. BURRITT SCHOLARSHIP, the income from a fund of two thousand five hundred dollars is used toward paying the tuition of a deserving young woman student. The income is one hundred and twenty-five dollars.

THE EMEROY N. BURRITT SCHOLARSHIP, the income from a fund of two thousand five hundred dollars is used toward paying the tuition of a deserving young woman student. The income is one hundred and twenty-five dollars.

THE MOSES D. CARBEE SCHOLARSHIP, amounting to one hundred fifty dollars annually is awarded to a deserving student in the College of Medicine. This scholarship was established by a bequest of three thousand dollars from the late Mrs. May D. Carbee, of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the Class of 1873.

THE PHILIP HENRY CREER SCHOLARSHIP, three hundred dollars annually, founded by Ex-Gov. Redfield Proctor, for the benefit of students from Proctor. This scholarship is awarded by the donor.

THE CHARLES H. HOOD SCHOLARSHIPS are provided from a private trust fund established for the purpose by the late Dr. Charles H. Hood of Boston. Each scholarship has a value of two hundred dollars. The number available each year is announced by the Dean of the College of Agriculture, who awards them to students who are candidates for a degree in agriculture in accordance with definite restrictions suggested by the donor. High scholastic standing is essential.

THE LYNDON INSTITUTE SCHOLARSHIP, yielding three hundred dollars per year, endowed by George E. P. Smith of the Class of 1897, is awarded annually to a graduate of Lyndon Institute of high character and promise. The selection is made by the faculty of Lyndon Institute and is renewed annually through the Senior year if good progress is made by the recipient.

THE WILLIAM G. SHAW SCHOLARSHIP, amounting to three hundred dollars annually, was originally founded in 1892 by bequest of one thousand dollars by the late Hon. William G. Shaw, of Burlington, of the Class of 1849. The fund has since been increased to six thousand dollars by Mr. Shaw's daughter, Mrs. Willard Pope of Detroit, Mich., who awards the scholarship.

THE SOLDIERS' SCHOLARSHIP FUND was founded by a group of Civil War veterans for the benefit of students in any college of the University who are descendants of soldiers in the Civil War. This scholarship amounts to one hundred dollars annually.

THE JOHN AND MARY WATERMAN SCHOLARSHIP of two hundred dollars annually, endowed in 1923 by the late Charles W. Waterman, of the Class of 1885 in memory of his father and mother, is available under special restrictions to residents of Waitsfield, Vermont, or Denver, Colorado. The scholarship is awarded by the President of the University.

THE HATTIE LAURA WETHERBY WESTON SCHOLARSHIP FUNDS consists of a five thousand dollar scholarship endowment for men and an equal one for women. They became available in 1936 by bequest of the late Mrs. Hattie Laura Wetherby Weston. The sum of two hundred and fifty dollars is awarded to one or more deserving men; an equal amount, under similar conditions to women.

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP is awarded to a student from New York or vicinity. The amount of this scholarship is five hundred dollars a year. Three hundred dollars of this sum is given for tuition and the balance is loaned, and bears a low rate of interest after the recipient has left College. This scholarship is awarded by a committee of the New York Alumni Association.

WILBUR SCHOLARSHIPS. The University of Vermont Trust Fund, amounting to over one million dollars, was established by the late James B. Wilbur of Manchester, Vt., as an endowment for scholarships for Vermont students who are in need of assistance to undertake college work and who have earned entrance or college records that indicate extraordinary scholastic ability. From the data presented in annual applications, tentative awards for the ensuing college year are made, in accordance with the conditions of the trust by a Committee of the Trustees during the month of July. The second semester allotments are reviewed at mid-year and confirmed or denied on the evidence of the scholastic record of the previous semester. Preliminary statements concerning scholastic ability must be submitted with the request for an application blank.

THE MARGARET PATTERSON MCDANIELS SCHOLARSHIP FUND was established in 1941 by a bequest from the late George N. McDaniels of Los

Angeles, California, in memory of his mother. The scholarships derived from the income of the endowment are for needy and deserving students, preference being shown to applicants who reside in the towns of Craftsbury and Greensboro. The fund amounts to more than ninety-three thousand dollars.

STATE SCHOLARSHIPS

STATE SENATORIAL SCHOLARSHIPS having a value of one hundred and twenty dollars each have been established by the General Assembly. There are ninety scholarships appointed annually, each Senator having three appointments in each of the two years of his term. The appointees must be residents of Vermont and usually are selected from the county which the Senator represents. Appointments are made by the Senators to whom application should be made.

One of the three annual appointments must be made to a student pursuing a course leading to the degree of Bachelor of Science in Agriculture. The other two may be used in any curriculum except medicine.

STATE MEDICAL SCHOLARSHIPS have been established by the General Assembly for the benefit of students of the College of Medicine who need financial assistance, and who have resided in Vermont for two consecutive years preceding enrollment. There are fifty scholarships of one hundred dollars each awarded each year. Students receiving the benefit of these scholarships must agree to practice in the State of Vermont one year for each year the scholarship is held or to refund the amount received.

STATE ELEMENTARY EDUCATION SCHOLARSHIPS are provided in limited number by the State Board of Education. Elementary education students who have been residents of Vermont for two consecutive years preceding enrollment, who have signed an agreement to teach in the public schools of Vermont for one year in return for each scholarship grant and who are in urgent need of aid in order to continue their studies are eligible to apply. A high scholastic record is expected and the scholarship will not be credited in the second semester if the first half record is not satisfactory. Each appointment is for one year only. In 1941-1942 fifteen scholarships of one hundred dollars each were awarded.

EARNED SCHOLARSHIPS

HONOR SCHOLARSHIPS

Honor Scholarships to the amount of two hundred dollars each are awarded annually by the Board of Trustees to the young man and young

woman graduating with the highest standing from a college preparatory course in each of the Vermont high schools accredited by the State Board of Education. These scholarships are for one year only. As the awards are made to the young man and woman having the *highest* standing in the graduating class of each approved high school, they are personal and individual and therefore not transferable.

INTERSCHOLASTIC DEBATING SCHOLARSHIPS

The final contest of the Interscholastic Debating League is held at the University. The eight individual debaters judged the best will each be awarded scholarships. The amounts of the awards are: First, \$300; second, \$300; third, \$275; fourth, \$250; fifth, \$200; sixth, \$175; seventh, \$150; eighth, \$150.

HIGH SCHOOL EDITORIAL SCHOLARSHIPS

The University offers six scholarships to members of the editorial boards of Vermont high school publications. For the purpose of judging, the schools are divided into three classes, according to size. In class one, comprising the large high schools and private schools, there are two scholarships of one hundred and seventy-five dollars each to be awarded to the best literary publication and the best news publication. In class two, the medium sized schools, there is a scholarship of one hundred and fifty dollars to be awarded to the best publication, whether literary or news. In class three, covering the small high schools, is a similar scholarship of one hundred and twenty-five dollars. There is also a special scholarship of one hundred dollars for the publication, irrespective of class, which shows the most improvement over the previous year, and another of one hundred dollars for the publication which maintains some department or feature of distinctive merit. The scholarship in each class goes to the editor-in-chief of the winning publication. In case the editor is not an applicant for admission the appointment may be made to the business manager or to some other senior member of the staff.

PRIZE SPEAKING CONTEST SCHOLARSHIPS

For the awards in the Vermont State Interscholastic Prize Speaking contest the University provides twelve scholarships. Six, amounting to one hundred and fifty dollars each, are awarded to the winners in the oratorical, the dramatic and the humorous divisions of both the preliminary and the final contest. The six corresponding second prizes are one hundred dollars each. Special third prizes of seventy-five dollars each may be awarded.

VOCAL MUSIC CONTEST SCHOLARSHIPS

The University has provided eighteen scholarships having a combined value of two thousand one hundred and fifty dollars which are given

annually to students of the secondary schools of Vermont who win awards in district and final vocal music contests. These contests are held in three districts under the auspices of the Department of Music and the supervision of the Vermont Headmasters' Club. The first prize for boys, and the first prize for girls in each district is a one hundred and fifty dollar scholarship. The district second prizes are one hundred dollars each.

The winners of the district contests participate in a final competition at the University for three scholarships for men and three for women. The value of these awards for the final contest is one hundred and fifty dollars, one hundred dollars and seventy-five dollars.

In addition, winners in the finals, during their freshman year at the University, may take without charge two lessons a week of vocal instruction in the Department of Music.

Contestants are judged especially on tone, accuracy of pitch, rhythm and interpretation. Stage deportment and diction are also considered. The conditions of these contests are controlled by the Music Department of the University.

LITERARY SCHOLARSHIPS

Ten scholarships are provided by the University for the encouragement of literary work in the schools of the State. Three scholarships of one hundred and fifty dollars each are offered for the best short stories, essays and poems in annual competition, three scholarships of one hundred dollars each for the second best in each class, and three scholarships of seventy-five dollars each for the third best in each class. There also is one scholarship, valued at one hundred dollars, for the best one-act play. The competition closes May 1.

THE CLASSICAL SCHOLARSHIPS

Two groups of scholarships are offered each year by the University, one to residents of Vermont and the other to non-residents.

Six scholarships of one hundred fifty dollars each are offered to sophomores who are residents of Vermont and are enrolled or wish to enroll in the Classical Curriculum. These scholarships will be renewed for the junior and senior years in the case of students who maintain the required standard of scholarship and continue the study of Greek and Latin.

Five scholarships of two hundred dollars each are offered to freshmen, not residents of Vermont, who have completed four years of preparatory Latin with honor grades. Those appointed will be expected to enroll in the Classical Curriculum. These scholarships will be renewed for the three following years on the same conditions as those described in the preceding paragraph.

The scholarships in both groups are awarded by the Department of Classical Languages and Literatures in consultation with the President. Inquiries about them should be addressed to Professor L. M. Prindle, 380 Maple Street, Burlington, Vt.

RESEARCH FELLOWSHIPS AND SCHOLARSHIPS

(See pages 88-89.)

PRIZES

THE BENEDICT ESSAY PRIZE was established by the late Robert Dewey Benedict of the Class of 1848, who gave three hundred dollars, the income of which is offered as a prize yearly to the member of the Senior class presenting the best essay on the subject of "International Arbitration." The prize is fifteen dollars and is awarded following examination.

THE BENNETT ESSAY PRIZE was endowed by the late Philo Sherman Bennett of New Haven, Connecticut. The fund of four hundred dollars yields an annual prize of twenty dollars which is awarded at Commencement for the best essay "discussing the principles of free government."

THE BRADLEE PRIZE FOR SCHOLARSHIP AND CHARACTER, given in memory of the late Thomas Bradlee, Director of the Agricultural Extension Service from 1913 to 1931, may be awarded annually by vote of the Faculty of the College of Agriculture to that student of either sex in such College, in the Senior or Junior class who has maintained scholarship rank of conspicuous merit, and who has, at the same time manifested high traits of character. The prize amounts to fifty dollars.

THE BUTLER DEBATING PRIZES were endowed by the late Edward Page Butler of the Class of 1879, who left the sum of one thousand two hundred dollars, the income to be used for the promotion of extemporaneous debate. From the income of this fund three prizes of twenty-five dollars, fifteen dollars and ten dollars have been established. These prizes may be awarded annually on recommendation of the head of the English Department to the three women students of the University who have shown the greatest ability in debate. The balance of the income, together with the amounts of any prizes that may not be awarded, will be expended in furthering debating.

THE CARBEE MEDICAL PRIZE of three thousand dollars was established by the late Mrs. May D. Carbee, of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the Class of 1873. The income of one hundred and fifty dollars from the fund is given annually at Com-

mencement to the student in the College of Medicine who shows the greatest proficiency in the subject of obstetrics.

THE CONVERSE PRIZES IN COMMERCE AND ECONOMICS were established by the late John Heman Converse of the Class of 1861, by gift of a fund of one thousand dollars, the income from which may be used in whole or in part for one, two or three prizes of twenty-five dollars, fifteen dollars and ten dollars, respectively. Any amount not awarded will be used for books and magazines for the Department of Commerce and Economics. The prizes are awarded on recommendation of the head of the department following presentation of a thesis of merit on some approved subject in the field of commerce and economics.

THE EMERSON PRIZE IN HISTORY, of one hundred dollars is offered annually at Commencement to perpetuate the scholastic memory of the late Samuel Franklin Emerson, who retired as Emeritus Professor of History in 1923 after forty-two years of service to the University. The prize is awarded to an undergraduate for the best original essay on any topic chosen from any field of history. Essays are not limited as to length but must be type-written, double space, on white paper 8½ by 11 inches in size. Each essay is to be signed by a fictitious name, the identification of which must be given in an accompanying sealed envelope bearing on the outside the fictitious name which was used. All essays considered in the competition must reach the Department of History by April 15. The department will submit the best essays for a selection for award, to an outside judge, who may withhold the prize if no essay submitted reaches a sufficiently high standard.

THE HOWARD PRIZES were provided by the late Mrs. Hannah T. Howard, of Burlington, who left by will one thousand two hundred fifty dollars, the income of which is awarded in prizes, to students in the College of Arts and Sciences for excellence in the work of the freshman year.

THE ELWIN LEROY INGALLS PRIZE of fifty dollars is provided from a fund established in 1934 to honor Elwin Leroy Ingalls, of the Class of 1896, who had then completed twenty years of continuous service as State 4-H Club Leader. It is awarded annually by the 4-H Club Department of the Vermont Extension Service to a University student of outstanding merit as shown in character, 4-H Club record and scholastic attainment in college.

THE KENT PRIZE IN ELECTRICAL ENGINEERING was established by A. Atwater Kent, of Philadelphia. The fund of five thousand dollars provides an income of two hundred and fifty dollars which is awarded as a prize by the faculty of the College of Engineering, under the following conditions:

"The income of the fund is to be awarded as a prize each year at Commencement to that member of the Senior class in Electrical Engineering who, during his Junior and Senior years, in the opinion of the Faculty teaching Electrical Engineering, has shown the greatest progress in judgment and general grasp of the broad principles of Electrical Engineering and in development of personality and who shows the greatest promise of success in this Field."

The names of the winners of this prize are placed on a tablet given by Mr. Kent and located in the Williams Science Hall.

THE KINGSLEY PRIZES IN ELOCUTION are provided annually to Freshmen and Sophomore men for the best declamations of passages of oratorical prose. There are three prizes, the first being twenty-five dollars, the second, fifteen dollars and the third, ten dollars. These prizes were given for many years by the late Darwin P. Kingsley of the Class of 1881, and have recently been continued by Mrs. Kingsley.

THE LAWRENCE DEBATING PRIZES were established by Edwin Winship Lawrence, of the Class of 1901. The first group of prizes is established in memory of the donor's brother, Robert Ashton Lawrence, '99, and is offered annually to students who, in the judgment of the English department of the University, exhibit the greatest proficiency in debate. The one thousand dollar fund provides three annual prizes; a first, of twenty-five dollars; a second, of fifteen dollars; and a third, of ten dollars.

The second group of prizes, established in memory of the donor's brother, Robert Ashton Lawrence, '99, and his father, George Edwin Lawrence (Middlebury College '67), will be awarded to the three students participating in a joint debate between representatives of the University of Vermont and Middlebury College, who in the opinion of the judges chosen show the greatest proficiency in this debate. The annual prizes are a first, of twenty-five dollars; a second, of fifteen dollars; and a third, of ten dollars. These prizes are derived from an endowment of one thousand dollars.

If debating ceases at the University, the income from these funds may be used to assist worthy students.

THE PHELPS PRIZE IN CIVIL ENGINEERING is fifty dollars, derived from a fund of more than nine hundred dollars. It was endowed in memory of the late Edward Haight Phelps of the Class of 1872, by his father, the late Edward J. Phelps. The prize may be awarded by the faculty of the College of Engineering each year at Commencement to a graduate of that year in Civil Engineering who shall have exhibited conspicuous merit in professional studies, and high and noble traits of personal character. A special certificate will accompany the prize, indicating the conditions

upon which it has been awarded. In the event that no award shall be made in any year, the same amount of money will be expended in the purchase of books on the subject of Civil Engineering for the use of the College of Engineering.

THE SEYMOUR HORTICULTURAL FUND, amounting to twenty-five hundred dollars, was given by William W. Seymour in memory of his father, Henry E. Seymour of the Class of 1835. The income from four-fifths of the fund is used for the Library of the Horticultural Department. The remainder of the fund provides twenty-five dollars annually as a prize to that member of the Senior class who has done the best work in original horticultural research.

THE KIRBY FLOWER SMITH LATIN PRIZE is derived from a three thousand dollar fund established as a memorial to Kirby Flower Smith of the Class of 1884 and given by his wife. An award of one hundred and fifty dollars is made annually to the student having the highest standing in College Latin 2.

THE RUSSELL O. SUNDERLAND MEMORIAL TROPHY is awarded annually at Founder's Day to that man of the Senior class who throughout his college course has best exemplified those qualities of character, leadership and persistence in overcoming obstacles, which were outstanding traits in the life of the late Russell O. Sunderland of the class of 1938. This is a permanent trophy upon which the name of the recipient is engraved annually. The Boulder Society gives a suitable personal trophy to each student who receives the Sunderland Award.

THE GEORGE H. WALKER DAIRY PRIZE is derived from a permanent fund of two thousand dollars, donated by the late George H. Walker, Boston, Mass., one of the founders of the Walker-Gordon Milk Company. It is awarded annually by faculty vote to a member of the graduating class of the College of Agriculture who has pursued a course either in Dairy Production or Dairy Manufactures, and who has shown conspicuous ability in the studies pertaining to Dairy Husbandry, and especially in milk production and marketing, and who furthermore exhibits high and noble traits of character.

In the event that no award is made by the faculty in any given year this income is spent for apparatus to be used for instructional purposes in market milk making or distribution, or for books dealing with Animal or Dairy Husbandry. The apparatus or books are marked as being derived from the George H. Walker Prize Fund.

THE WASSON ATHLETIC PRIZE is derived from an endowment of two hundred and fifty dollars, given by the late Mrs. Pearl Randall Wasson in memory of her husband, the late Dr. Watson L. Wasson, '01. The income

of the fund is used for the purpose of giving a prize "to the member of the Senior class who has maintained the highest standard of academic scholarship and athletic attainment," as determined annually by the University Council.

THE ATHLETIC COUNCIL MANAGERIAL PRIZE of twenty-five dollars is awarded annually at Commencement to the senior sports manager who, in the judgment of the Athletic Council, has shown the greatest proficiency in performing the work of his office.

THE WOODBURY MEDICAL PRIZES are derived from a fund of one thousand dollars created by the late Mrs. Pauline S. Woodbury in memory of her husband, the late Dr. Urban A. Woodbury of the Class of 1859. The first prize is awarded annually to the student who, upon graduation, has shown the greatest proficiency in the clinical subjects in his Senior year. The second prize is awarded to that member of the Sophomore class, who has received the highest standing of the class in all subjects of the Freshman and Sophomore years.

THE MABEL NELSON JACOBS SCHOLARSHIP CUP is annually awarded to the custody of that sorority, the members of which have won the highest scholastic standing for the preceding year. The cup was provided by the late Mrs. H. J. Nelson in memory of her daughter, Mrs. Mabel Nelson Jacobs, of the Class of 1899.

THE KIDDER MEDAL is provided by the income of a fund of four hundred dollars, established in memory of the late Dr. F. T. Kidder, of Woodstock, an alumnus and trustee of the University. The specially engraved gold medal is awarded at Commencement to the male student ranking first in character, leadership and scholarship. The selection is made by a committee representing all the faculties.

MILITARY DEPARTMENT PRIZES

THE LOYAL LEGION SABER, a regulation commissioned officers' saber, suitably inscribed, has been presented annually since 1931 by the Vermont Commandery of the Military Order of the Loyal Legion to that student of the graduating class who attains the highest standing in the Reserve Officers' Training Corps.

THE SONS OF THE AMERICAN REVOLUTION MEDALS have been presented annually since 1933 by the Vermont Society, Sons of the American Revolution, one to the member of each class in the Reserve Officers' Training Corps who is outstanding in character, conduct, leadership, and in theoretical and practical knowledge of the year's course. These medals are of nation-wide standard pattern. The stated purpose of the award is to keep before the minds of the young men of today, in order that

they may be encouraged to exemplify them in practice, those qualities and characteristics upon which our nation was founded and has been perpetuated.

THE AMERICAN LEGION TROPHY, a mounted silver shield, is annually awarded to the Reserve Officers' Training Corps company which shows itself to be the most proficient in attendance, neatness, set-up, and drill. The designation of the winning organization and the name of the company commander of that organization are annually inscribed upon the shield. The shield was presented by Burlington Post, No. 2, of the American Legion.

THE CRAIG TROPHY was donated to the University of Vermont by Major M. E. Craig, in honor of the 1936-1937 Rifle Team of the University of Vermont. Upon it, each year, is engraved the name of the man making the highest cumulative score throughout the year in the principal matches in which the University rifle team is a competitor. These competitions are The Hearst Trophy Match, The Corps Area Match and the matches in the New England League of the National Rifle Association. The award is announced annually by the Military Department. The trophy remains the property of the University of Vermont.

HONORS

Honors may be awarded at graduation for general high standing in scholarship, and also for conspicuous attainment in a particular department, as provided below.

The Honors awarded at graduation will be indicated on the Commencement program, and the graduate who wins Honors for general high standing may have the words *cum laude*, or *magna cum laude*, inscribed on his diploma, the particular designation to be determined by vote of the Senate.

On the morning of Commencement Day an Honor List will be published, containing the names of all who have gained Honors at graduation; of all who have won prizes during the year; and of such other graduates as may have presented theses or essays of conspicuous merit. This list also will be printed in the next annual Catalogue, with the names of those who have been awarded prizes.

The five students who are found to have secured the highest aggregate of marks during the entire four years' course of study in the College of Medicine are designated Honor Men, and each is graduated as Doctor of Medicine, *cum laude*.

SPECIAL HONORS IN THE COLLEGE OF ARTS AND SCIENCES

A student in a group elective curriculum, who, at the end of his Junior year, has an average of B or above for the work of the preceding three years and lacks not more than two courses to complete his group requirements, may become an applicant for Special Honors in a particular subject and be enrolled in Honor Courses.

Notice of his intention to enroll in such courses must be filed, on a blank furnished for this purpose, with the Committee on Honors and Advanced Degrees at the conclusion of his Junior year.

A student whose standing justifies such a privilege will be allowed to enroll during his Senior year, in not more than twelve hours, in addition to his thesis, six of which will be at the disposal of the head of the Department in which Honors are sought.

A student who is a candidate for Honors will be expected to prepare a thesis upon some topic designated or accepted by the head of the department, in which he is seeking Honors, and he must present this thesis to the Committee on Honors not later than May 10 of his Senior year.

Upon the approval by the Committee of his thesis, the student will be expected to pass an oral examination conducted by the head of the department, or by some one appointed by him, and at this examination at least one member of the committee, whose field of work is related to that of the candidate, will be present.

DEANS' LISTS

The Deans of the three academic colleges publish at the beginning of each semester the names of those students who have attained an average of at least "B" in their college credit courses during the preceding semester.

HIGH STANDING LISTS

The names of academic students who are to be commended for high standing in their studies will be posted on the bulletin boards at the beginning of the second half of the Freshman year, the first half of the Sophomore year and the first half of the Junior year. These lists are also published annually in this Catalogue.

DEGREES

Degrees are conferred upon the recommendation of the different Colleges as follows:

COLLEGE OF ARTS AND SCIENCES

CLASSICAL CURRICULUM; *Bachelor of Arts.* (A.B.)

LITERARY-SCIENTIFIC CURRICULUM; *Bachelor of Philosophy.* (Ph.B.)

- SOCIAL SCIENCE CURRICULUM; *Bachelor of Philosophy*. (Ph.B.)
 GENERAL SCIENCE CURRICULUM; *Bachelor of Science*. (B.S.)
 CHEMISTRY CURRICULUM; *Bachelor of Science in Chemistry*. (B.S. in Ch.)
 COMMERCE AND ECONOMICS CURRICULA (Business, Secretarial and Commercial Teaching); *Bachelor of Science in Commerce and Economics*. (B.S. in Cm. and Ec.)
 SECONDARY EDUCATION CURRICULUM; *Bachelor of Science in Education*. (B.S. in Ed.)
 *ELEMENTARY EDUCATION CURRICULUM; *Bachelor of Education*. (Ed.B.)
 *MUSIC EDUCATION CURRICULUM; *Bachelor of Education*. (Ed.B.)
 *INDUSTRIAL EDUCATION CURRICULUM; *Bachelor of Science in Education*. (B.S. in Ed.)

COLLEGE OF ENGINEERING

- CIVIL ENGINEERING CURRICULUM; *Bachelor of Science in Civil Engineering*. (B.S. in C.E.)
 ELECTRICAL ENGINEERING CURRICULUM; *Bachelor of Science in Electrical Engineering*. (B.S. in E.E.)
 MECHANICAL ENGINEERING CURRICULUM; *Bachelor of Science in Mechanical Engineering*. (B.S. in M.E.)

COLLEGE OF AGRICULTURE

- AGRICULTURAL CURRICULA; *Bachelor of Science in Agriculture*. (B.S. in Ag.)
 HOME ECONOMICS CURRICULUM; *Bachelor of Science in Home Economics*. (B.S. in H.Ec.)

COLLEGE OF MEDICINE

- MEDICINE CURRICULUM; *Doctor of Medicine*. (M.D.)

GRADUATE STUDY

The graduate department is supervised by the Senate Committee on Degrees and Graduate Study. The degrees of Master of Arts and Master of Science may be earned after attendance in regular or summer sessions. Technical Degrees, awarded only to graduates of the College of Engineering of this University, require evidence of high professional achievement for at least four years supplemented by an approved thesis.

* Given in cooperation with Vermont State Board of Education. The degree is voted by the trustees of the University of Vermont and State Agricultural College on recommendation of the Head of the Department of Education and the Senate Committee on Degrees. These curricula are without specific college affiliation.

GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

For the purposes of assisting students whose undergraduate record and personal qualities give promise of success, either in research or in the profession of teaching, the University has established a number of fellowships and scholarships.

UNIVERSITY FELLOWSHIPS.—Seven fellowships of seven hundred dollars each the first year, and eight hundred dollars each the second year, with exemption from tuition charges, are awarded to students whose undergraduate record and personal qualities give promise of success either in research or in the profession of teaching. The fee for the degree is charged.

The holder of a fellowship is expected to work for the Master's Degree, to study some special problem of research and to give a certain amount of assistance to the department in which he holds the fellowship. The maximum amount of time devoted to this assistance, however, does not exceed eight hours per week. These Fellows are subject to such general rules as are in effect for those who are doing work for advanced degrees. In awarding three of these fellowships preference is given to applicants who are not graduates of the University of Vermont.

EXPERIMENT STATION FELLOWSHIPS.—A number of fellowships of nine hundred dollars each, with exemption from tuition charges, are awarded each year to full time research assistants in the Experiment Station who are working for the Master's Degree. All such awards are made on the recommendation of the Station Director. The fee for the degree is charged.

THE GEORGE H. WALKER DAIRY FELLOWSHIP is a grant of not less than seven hundred dollars, with exemption from tuition charges, available to graduate students who during their undergraduate course have studied "agriculture, chemistry and bacteriology" and who desire to study the problems relating to the production of a sanitary milk supply on comparatively small plants and farms. The endowment of ten thousand dollars is sufficient to provide a fellowship every third year.

THE UNIVERSITY GRADUATE SCHOLARSHIPS provide full and partial tuition rebate for graduate students. Ten scholarships of three hundred dollars each are awarded annually to selected students enrolled in the Graduate Department. The partial scholarships are variable in number and amount and are budgeted annually. In awarding one-half of these scholarships preference will be given to applicants who are not graduates of the University of Vermont.

AMERICAN SCHOOLS OF CLASSICAL STUDIES. The attention of graduate students interested in Greek, Latin, Archaeology, and Ancient Art is called

to the opportunities offered by the American Schools of Classical Studies at Athens and Rome. Since the University contributes to the support of these schools, any Vermont graduate may enjoy the privileges of study at either school without charge for tuition and may compete for the annual fellowships which they offer. Further information may be secured from members of the Department of Classical Languages.

REGISTRATION FOR GRADUATE STUDY

A graduate who holds a Bachelor's degree or its equivalent from an approved college or university may be admitted to graduate study and register for such graduate studies as he is prepared to take.

It is understood that a candidate in Arts shall have taken the degree of Bachelor of Arts or Bachelor of Philosophy, and that a candidate in Science shall have taken the degree of Bachelor of Science. If any other sequence of degrees is proposed the candidate shall satisfy the Committee on Degrees of his ability to do the work outlined. The Bachelor's degree, in order to be accepted, must have been taken at an approved institution.

New students must apply for admission to the chairman of the Committee on Graduate Work. They must file with the committee an enrollment blank approved by the department in which the major is to be taken. The payment of the required fees at the Comptroller's office completes registration.

Candidates must register not later than November 1 of the college year in which the degree is sought. Students in the Summer Session must enroll on the appointed day in each of at least three Summer Sessions.

On account of the seminar nature of most of the work the number of candidates selected for each department must be limited. All inquiries concerning the special opportunities for research in each department will be referred to the head of that department, and only candidates who desire to work along lines in which the University offers exceptional advantages will be accepted.

Tuition is three hundred fifty dollars a year. One-half of this charge is payable in advance on the first of each semester. No laboratory fees are charged but charges will be assessed for breakage. The fee for the Master's degree is twenty-five dollars.

Time alone is a minor consideration in all graduate work. Experience has shown, however, that at least the equivalent of a year's work is necessary for a student to fulfill the scholastic requirements for a Master's degree. The degree of Master of Arts or of Master of Science may be conferred for research work in a chosen field upon graduates of this University or of any other college or university of recognized standing, after one

year's residence at this University. Research Fellows, because they assist in teaching, must be in residence during two full academic years.

THE MASTER'S DEGREES IN COURSE

As the requirements for the Master's degrees are based on the ability of the candidate to do original research in his chosen field the result of which must be presented in the form of a thesis, the work is distinctly individualistic and so-called graduate courses are not directly counted toward a degree.

The instructor in charge may require such graduate and undergraduate courses as seem essential for a proper understanding of the problem discussed in the thesis. Such preliminary work may prolong the time requirement.

A typical plan for graduate study is given below:

1. General readings. A course of general reading will be assigned by the committee, to be followed by a written report and oral examination.
2. The plan of major and minor study must be submitted and the application for candidacy formally presented to the Committee on Degrees not later than November 1 of the college year in which the degree is sought.
3. Each candidate is required to present a thesis upon some chosen topic within the major field of study which shall give the result of an investigation undertaken since graduation and show evidence of capacity for independent research. The candidate also will be expected to pass an examination before the Committee on Degrees, designed to test the thoroughness of the work done and fitness for the degree. Examinations for the Master's degree are held in May. The thesis must be presented not later than May 1, and will be deposited, if approved, in the University Library.
4. A minor subject must be chosen in a field of study different from that of the major. This minor must be closely related to the work of the thesis.

GRADUATE STUDY IN THE SUMMER SESSION

The requirements for the degrees of Master of Arts and Master of Science earned by attendance in Summer Sessions are essentially the same as those stated above with such minor adjustments as seem necessary.

Students of the Summer Session who desire to have their work count for credit toward an advanced degree should consult with the Director of the Summer Session regarding the selection of courses. Under his

guidance a major and a related minor course of study should be chosen. It is desirable that students carry three courses each year while meeting the residence requirements.

At least three summers before the candidate expects to complete his work, he should select a thesis topic in the chosen major field. This topic should be selected only after consultation with the supervising instructor and should be presented to the Committee on Degrees for approval. The outline, method and development of the thesis *must* be under the constant direction of the supervising instructor, assisted by the Committee on Degrees.

A course of general readings will be assigned by the Committee on Degrees in addition to the work of the major and related minor, and a written report and an oral examination on the readings will be required.

The Director of the Summer Session, subject to the approval of the University Committee on Degrees, will assign supervising instructors for all students who register for work toward an advanced degree. The supervising instructors will make sure that the work followed is of graduate grade and that emphasis is placed on the ability for research.

An oral examination before the Committee on Degrees, covering the courses of study as well as the research method and the conclusions of the thesis, will be required.

At least four Summer Sessions will be necessary to satisfy the time requirement of residence.

THE MASTER OF EDUCATION DEGREE

The Degree of Master of Education is offered to those Summer Session students who wish to specialize in Education. Candidates for this degree are required to submit a transcript of their undergraduate records before they are accepted for matriculation. If they have not had a sufficient number of courses in Psychology and Education they will be required to take additional courses of undergraduate grade in these fields. Their records as undergraduates must be of such a character as to indicate ability to do graduate work. Matriculation should take place during the first summer of residence.

Upon matriculation an adviser will be appointed by the Committee on Degrees under whose direction a systematic course of study, continuing for four summers and including not less than thirty semester hours of approved graduate work, will be planned. All courses taken for credit toward this degree must be of such a character as to develop ability in research and must be passed with high standing. The course entitled, "The Intellectual Background of Modern Life" is required of all candidates for this degree.

A course in general readings will be prescribed. Abstracts of these readings will be required and a preliminary oral examination will be conducted. The readings should be completed and the preliminary examination should be taken as early as possible during the four summer sessions of residence.

A thesis may be accepted in lieu of six semester hours of graduate study provided that it is developed under the direction of the Department of Education at the University of Vermont and is approved by the Committee on Degrees.

The degree Master of Education will be awarded upon the passing of a comprehensive oral examination on the major and minor when the thirty semester hours of graduate study have been completed.

The fee for the Master's degree when earned through attendance at Summer Sessions is twenty-five dollars.

THE TECHNICAL DEGREES

The advanced degrees of Civil Engineer, Mechanical Engineer and Electrical Engineer may be conferred upon graduates of the College of Engineering of the University of Vermont of at least four years' standing, who shall have been engaged in professional work, for at least three years, in positions of responsibility and shall have shown ability to design and execute important engineering work.

The candidate must present a satisfactory thesis upon some technical subject that shall show original investigation. The candidate shall present to the Committee on Degrees, not later than October 10 of the college year in which the degree is sought, an outline of his thesis and a concise statement of his technical training and experience.

The subject of the proposed thesis as well as the professional record must be approved by the Committee on Degrees.

The thesis shall be presented to the Committee on Degrees not later than May 15, in order that the Committee may approve and recommend the candidate for the appropriate degree.

The fee for these degrees is twenty-five dollars.

UNIVERSITY EXTENSION

The aim of the University Extension work is to broaden the horizon of those who have not had the advantages of a college education and to afford an opportunity for those who have attended college to keep in touch with academic thought along their favorite lines, or to gain some information about subjects which they have not studied in college.

The Extension work includes:

1. THE AGRICULTURAL EXTENSION SERVICE. (See Index.)
2. SUMMER SESSION.
3. EDUCATIONAL CONFERENCES.
4. CONFERENCE WITH EDITORS OF HIGH SCHOOL PUBLICATIONS.
5. EXTENSION COURSES. Several departments are prepared to offer extension courses in various subjects. It is possible to arrange for such courses to be given in any town where a group of reasonable size can be enrolled. Enrollment is open to all who are interested. Those who satisfactorily complete an extension course of thirty hours are granted two semester hours' credit at the University of Vermont. The State Board of Education grants to those teachers who satisfactorily complete approved courses, limited credit towards higher certificates. The amount of credit for extension courses allowed toward a degree is limited. Information regarding courses and expenses may be obtained by addressing the Chairman of the Committee on University Extension.
6. LECTURES. These are given by members of the Faculty, or other persons affiliated with the University, on topics of general interest. Single lectures, or courses of lectures (available throughout the State) are offered by members of the Faculty. The number of lectures in a courses will be determined by circumstances. A list of the lectures offered will be mailed on request and further details concerning the work indicated above may be had from the Chairman of the Committee on University Extension. Inquiries relating to agriculture should be addressed to the Agricultural Extension Service.
7. RADIO BROADCASTING. From time to time the University, using the facilities of a local broadcasting station, provides educational programs contributed by members of the faculties of the four colleges and Experiment Station staffs. The musical programs are under the auspices of the Department of Music. A series of talks, sponsored by the Museum staff, is presented weekly throughout the year.
8. THE LIBRARIES. The books of the general and special libraries of the University are available for loan to the people of Vermont. Many books are sent each year on loan to other libraries, clubs and organizations and to responsible individuals. The only charge is the cost of transportation. Application should be made to the Librarian.
9. THE FLEMING MUSEUM. The Robert Hull Fleming Museum is an active agency in the extension program of the University. It conducts

a variety of Extension projects for clubs, libraries and schools. The exhibits have been made available to city and rural schools. With the cooperation of Parent-Teachers' Associations, Motion Picture League of Burlington and many other volunteer groups and individuals, the Museum offers on Saturday mornings, entertainments, moving pictures, and illustrated talks. These instructive programs interest and attract large groups of young people.

The Fleming Museum Art Association has a large membership. Working with the Museum staff this organization arranges addresses and special art exhibits, all of which are free to the public. University lectures, plays and musicals, as well as the programs of a number of scientific societies and civic clubs are held in the Museum. Many thousands of people visit the Museum annually. Information can be secured from the Museum and inquiries are invited.

THE SUMMER SESSION

A Summer Session is maintained each year for a period of six weeks. Subjects offered include Art, Botany, Chemistry, Commercial Subjects, Dramatic Art, Economics, Education, English, French, Geography, German, History, Home Economics, Industrial Arts, Italian, Latin, Mathematics, Music (instrumental and vocal), Philosophy, Physical Education, Physics, Political Science, Psychology, Spanish, and Zoology. The school is intended to meet the needs of various groups of students, such as:

1. Students or teachers who have completed a four-year college course and who wish to take advanced work for credit toward the Master's degrees.
2. Principals and superintendents of schools who desire to take fundamental or specialized courses in the fields of Educational Administration and Supervision.
3. Students or teachers with adequate preparation who desire to take courses leading to a Bachelor's degree.
4. Teachers in elementary or secondary schools who desire to earn credit toward State teachers' certificates of higher grade or who desire to broaden their knowledge of the subjects they teach.
5. Students who desire instruction in Art, Music, Visual Instruction or Physical Education.
6. Persons who desire to take, without credit, courses for self-improvement.

A special bulletin giving a full description of courses will be sent upon application to the Director of the Summer Session.

EDUCATIONAL CONFERENCES

TEACHERS' CONFERENCE

It has become the policy of the University to hold annually in March an educational conference with the schools of the State.

The project is a part of the University's contribution to the effort which is being made by the various educational forces of the State to improve our institutions of all grades from the primary school to the college and the University. In selecting a topic for the conference an effort is made to look to the future and anticipate the problems which Vermont must consider. The aim is not to enlist the interest of the general public by popular addresses, but to bring to the teachers of the State, year by year, expert reports and opinions relating to some of our many serious educational problems. This conference is held in connection with the convention of the Champlain Valley Teachers' Association. The exact dates of the conference will be found in the University calendar.

HIGH SCHOOL EDITORIAL CONFERENCE

A conference is held late in the fall each year with representatives of high school publications and teachers of English in schools publishing high school papers. Its purpose is to aid, by means of addresses and discussions, in the solution of editorial and business problems, and to encourage the use of contributions to school papers as part of the regular work in English. The Trustees of the University have provided special scholarships in further encouragement of this activity in the secondary schools.

MILITARY TRAINING

Military training is required of all male members of the Freshman and Sophomore classes in the Colleges of Arts and Sciences, Engineering, and Agriculture, and is elective to those members of the Junior and Senior classes in these colleges who are approved by the Professor of Military Science and Tactics. The successful completion of the four-year course qualifies the student for appointment as Second Lieutenant of Infantry in the Reserve of the Army of the United States.

Basic and advanced courses in Medico-Military Science are offered in the College of Medicine. Enrollment is in the Medical Corps Unit.

For details in regard to these courses, see index references.

PHYSICAL EDUCATION

There are two departments of Physical Education, one for men, the other for women. The courses for men are held in the Gymnasium and Cage on University Place. The Mabel Louise Southwick Memorial on Redstone Campus provides the facilities for women. Separate tennis courts and playing fields are maintained for outdoor instruction of men and women. Near the men's gymnasium there is a large rink which provides facilities for skating and ice hockey. Skiing privileges are available near the college and on Mount Mansfield at Underhill Center.

The Freshman and Sophomore students of all colleges except Medicine are required to enroll for two credit hours of this work. Both men and women may elect advanced courses during the Junior and Senior years.

At the beginning of the college year, each new male student receives a thorough physical examination under the supervision of the Medical Director, the object of which is to detect the presence of disease, defects in muscular development and the condition of the eyes, ears, nose and throat. A record of the examination is kept on file as a basis of advice on all matters pertaining to health conditions and physical exercise. Each student is informed of any disease or defect which may be present, and proper advice is given. A woman physician conducts similar physical examinations for women.

THE DEPARTMENT OF PHYSICAL EDUCATION FOR MEN

The Professor of Physical Education for Men and Director of Athletics directs and supervises the teaching and administration of this department. His staff includes the Assistant Professors, Instructors, Coaches and Assistants. The Program of Activities is both extensive and intensive. It includes organizing and conducting intramural and intercollegiate games and sports. The Athletic Council sponsors the intercollegiate program. Each student who is found physically fit is encouraged to play on some athletic team or to elect some definite recreational activity for which he has aptitude or interest. Regulation clothing is required of those taking work in this Department. The courses are described elsewhere in the catalogue.

THE DEPARTMENT OF PHYSICAL EDUCATION FOR WOMEN

This Department is in charge of the Associate Professor, assisted by two instructors and a lecturer on Hygiene. The physical examinations in this department are conducted by a woman who is a registered physician. The purpose of the instruction is to improve carriage, coordination and endur-

ance, to provide knowledge of general hygiene and disease prevention, and to create habits of physical exercise and recreation that will be useful, enjoyable and beneficial in later years. A description of the courses offered will be found elsewhere.

STUDENT HEALTH SERVICE

The Student Health Service was established in 1941. The staff consists of two men and one woman physician who are also connected with the teaching staff of the College of Medicine. Offices are in the Waterman Building.

The Service provides a complete physical examination of incoming students, examination of athletic squads and care for injuries sustained in athletics, consultation for health and medical problems for which daily office hours are held, and medical care for students who are unable to pay for private medical care. All illnesses are reported to the Service, and excuses issued for absences because of illness.

ATHLETICS

The general athletic policy of the University is established by the Athletic Council, the executive officer of which is the Director of Athletics. The Athletic Council is composed of four faculty members, four alumni members, the four varsity sports managers and the Director of Athletics.

The various athletic teams, within the limits defined by the University faculties, are open to all *bona fide* students of the institution. The Athletic Council recognizes as major intercollegiate sports, football, baseball, basketball and track; as minor sports, cross-country, tennis and rifle. Freshman sports are football, baseball, basketball, track, cross-country and tennis.

Representative and interesting schedules are arranged with other New England and eastern colleges. In the spring during Easter vacation, the baseball team plays a pre-season schedule in the South.

All teams come under the direct supervision of resident coaches who are members of the faculty and are experienced in their respective fields. Fundamentals are stressed and organized team play is encouraged.

The team physician for men supervises the physical condition of all team members. Each candidate for an athletic team must pass a special physical examination before becoming eligible for membership. A well-equipped Medical Room is maintained in the gymnasium for the benefit of team members and arrangements with the Mary Fletcher Hospital

enable those team members who need specialized treatment to receive the best of medical care.

The University of Vermont maintains active membership in the National Collegiate Athletic Association, the New England Intercollegiate Amateur Athletic Association, the Eastern Intercollegiate Amateur Athletic Association, the Association of New England Colleges for Conference on Athletics and the Association of Connecticut Valley Colleges on Officials.

Athletic fields and gymnasium facilities are described elsewhere.

RELIGIOUS LIFE

The University, although it has no connection with any particular denominational body, endeavors to develop an earnest appreciation of ethical and social obligations, and to encourage participation in religious activities.

The activities involved in religious endeavor and worship are carried on by various voluntary associations, the Young Men's Christian Association, the Young Women's Christian Association and the various church clubs for college men and women. These societies primarily of, and for, students are advised by faculty men and women who serve as members of the respective advisory boards. In this informal way there is cooperation between the various student associations and faculty members of like denominational preferences.

Local churches are eager to interest and enlist college men and women of their own communion in their various exercises, and Sunday classes especially for students are held. Chapel services are held Wednesdays at 10 o'clock. They last twenty minutes and include five-minute addresses by members of the clergy from Burlington or elsewhere in the State. Attendance at present is optional.

Six or seven vesper services are held in the University Chapel once a month on Sunday afternoons during the college year. Eminent clergymen from outside the State usually are secured for these services.

CHRISTIAN ASSOCIATIONS

The Young Men's Christian Association is a student and faculty organization for the development of Christian ideals in the University. It is supported and maintained by the students, faculty, alumni, and friends of the University. The program of its activities includes a wide variety of religious and social service, including devotional meetings, discussion groups, the Freshman reception, the Handbook, deputation trips to nearby

communities, and the operation of the College Rooming and Employment Bureau. The Y. M. C. A. office is in the Old College Building and is open daily for service. An employed general secretary is giving his whole time to the work. There is an incorporated advisory board consisting mostly of faculty members which is responsible for the continuation and the character of the work. A Freshman student camp is held each year at the State Y. M. C. A. Camp, Abnaki, on the island of North Hero, during the week-end preceding the opening of the University in September.

The Young Women's Christian Association is an organization of the women students and Faculty women for the same purpose as the men's association. It unites with the Y. M. C. A. in welcoming the new students each year through the Freshman reception and the Vermont Handbooks for men and women which furnish University information useful to entering students. During the year regular meetings are held with a wide variety of programs, seeking to foster the very highest ideals among the students.

ORGANIZATIONS

Believing that the right sort of companionship and recreation play an important part in the building of character during the formative college period, the University in various ways, lends encouragement to all legitimate student organizations. The different religious, social, and athletic bodies, therefore, endeavor to meet the needs of the students without interfering with the main purpose of a college course.

FACULTY-STUDENT COUNCIL

The Faculty-Student Council has been enlarged and now includes the Women's Council. It is composed of eight faculty members, six men and two women, appointed by the President, and fourteen students, ten men and four women, elected by classes. The men choose one Senior and one Junior from each of the four colleges, and two are chosen at large from the Sophomore class. The women elect two members each from the Senior and Junior classes. These are elected as early as practicable in each college year. The Council has been formed for the purpose of establishing cordial relations between Faculty and students as well as cooperation in regulating and controlling all student activities. Any subject which concerns the students may be brought before the Council and, after full discussion, either may be settled by it or referred to the Senate for action. No student organization may hold a dance without the consent of the Council. Requests must be presented to the secretary at least one week before the date on which it is proposed to hold the dance.

WOMEN'S STUDENT UNION

Every woman who enrolls as a student at the University, unless she is a resident of Burlington and living with her parents or guardian, automatically becomes a member of the Women's Student Union Association and is thereafter subject to its authority. This organization regulates all matters of student conduct which are not academic in nature. By distributing responsibility and encouraging participation in its activities Student Union aims to develop individual leadership and to encourage self-direction. A social conscience and high ideals of personal integrity are promoted through the honor code. Cooperation based upon a thorough understanding of the rules and regulations of the Association is expected of each student.

Student Union meetings are held at stated intervals. All women students are expected to attend these mass meetings as in no other way can they keep in touch with matters with which student government is concerned.

MUSIC ORGANIZATIONS

Under the Department of Music, several organizations are maintained, membership in which is attained by students of ability and interest in music, on the basis of competitions held early in each college year.

The University Choir consists of both men and women and is limited to about forty voices. Its function is not only religious, but also artistic and educational. The music is chosen from the masterpieces of choral music of all ages. The choir sings at the Wednesday morning and Sunday afternoon chapel services, and rehearses twice a week.

The Chapel Orchestra includes both string and wind instruments. It accompanies the choir at services and rehearses once a week. The Choir and Chapel Orchestra join in an annual Christmas Concert and Lenten-Easter Concert. Members of these two organizations receive a small honorarium for each service and hour of rehearsal.

The Men's and Women's Glee Clubs are separate organizations which rehearse once a week. They join in an opera each year, and have taken part in the New England College Glee Club Festivals and other concerts with other colleges, besides local concerts.

The University Orchestra is similar to the Chapel Orchestra but plays secular music. It performs at college plays, the Glee Club concerts and opera. It rehearses once a week.

SOCIAL GROUPS

Fourteen national and three local academic fraternities, ten for men and seven for women, as well as two medical fraternities for men, have chapters at the University. Admittance to these organizations is by invitation.

OUTING CLUB

The University has a very active Outing Club, which is under the supervision of the Physical Education Departments. Features of its work are organized hikes, mountain climbing, snowshoeing, and skiing. During the winter term a large skating rink is maintained on the campus. An Intramural Winter Sports Meet is held annually. Winter recreational facilities are available to members of the Outing Club at Underhill Center on the western slope of Mount Mansfield.

HONORARY SOCIETIES

The Phi Beta Kappa Society established the Vermont Alpha Chapter at the University in 1849. Elections of seniors are made in December and at Commencement. The initiates are chosen primarily on the basis of high scholastic standing. The local chapter was the first in Phi Beta Kappa to initiate women into membership.

The Boulder Society, a self-perpetuating group of Senior men, is recognized as an organization responsible for student leadership. Election to this society is counted one of the highest honors that a University man may win. A feature of each Founder's Day is a meeting of this organization at which time the names of new members are announced.

Other honorary class societies for men that are active on the Campus are the Key and Serpent a Junior honorary society, Gold Key a Sophomore society, and Cap and Skull the Senior Medical honorary society.

Mortar Board, national Senior honorary society for women, has an active chapter at the University. By such an affiliation women at Vermont are brought in closer contact with outstanding college women throughout the country while they still maintain their local significance of service to the Vermont campus. Though membership in Mortar Board comes as the greatest honor for a Vermont woman in recognition of outstanding service, scholarship and leadership, it is far more than an honor. It is much rather a challenge for continued sound and honest scholarship, for unselfish service in the best interests of the college campus and for the finest type of womanhood.

In 1938 two honorary class societies for women were organized. The Junior Society, organized as the Junior Councilors, has recently adopted the name Staff and Sandal. Its membership of twelve is elected by the Junior class from the outstanding leaders of the class.

The Sophomore Aides elected annually by the Sophomore class, numbers fifteen of the women who in their Freshman year gave evidence of the qualities of scholarship, leadership and service. This group serves as assistants to Mortar Board.

Omicron Nu, a national honorary society for students majoring in Home Economics, established Phi chapter at the University in 1925. The initiates are chosen primarily on a scholarship basis in the spring of the junior and the fall of the senior years. Alpha Zeta, an honorary agricultural fraternity, also has had a chapter at the University since 1905. Its initiates are chosen largely on the basis of scholarship.

Kappa Phi Kappa, a national professional education fraternity, was established at the University of Vermont in 1926.

DEPARTMENTAL CLUBS

There are many active departmental clubs which are encouraged by the University. In some, election is an honor recognizing special ability or aptitude. Others foster a general interest in the work of certain departments. These clubs usually represent the spontaneous desire of a group of students for additional educational and social opportunities and experiences.

In the College of Arts and Sciences there are several clubs organized by students who are majoring in Languages, the social and pure Sciences and for students who are preparing for careers in Chemistry, Medicine and Teaching.

The Agricultural and Home Economics Clubs and the Collegiate Chapter of the Future Farmers of America are active in the College of Agriculture.

In the College of Engineering there are student branches of the American Society of Civil Engineers, the American Institute of Electrical Engineers and the American Society of Mechanical Engineers.

Students in the College of Medicine are all members of the Osler Club, which holds meetings at least once a month throughout the college year.

GRADUATE STUDENTS CLUB

The Graduate Club, conducted by the students of the University who are candidates for Master's degrees, meets monthly during the regular session and weekly during the summer session. The program of the meetings includes an open discussion of a topic selected by the graduate students. This is followed by a social hour.

PUBLICATIONS

THE CYNIC is a semi-weekly student newspaper issued during the college year.

WINNOWINGS FROM THE MILL is a student literary magazine issued once a year.

THE ARIEL is the annual publication of the Junior Class.

THE VERMONT ALUMNUS is issued monthly under the auspices of the Alumni Council.

THE VERMONT BULLETIN is entered as second class matter. It is issued by the University four times a year and includes the annual Catalogue, the Summer Session numbers and the Medical Bulletin.

THE SUMMER SESSION CALENDAR is published five times a week during the Summer Session.

REGULATIONS

The general principle governing the conduct of the students is set forth in the following ancient and frequently reenacted law of the University:

"The conduct of the students toward all men is to be regulated by those plain rules of politeness, honor and religion which are binding on every free and virtuous community. They are to conform to every requirement of the Faculties, which may arise from their relations as instructors, counselors and guardians, and as upright men and good citizens, they shall use all lawful exertions to prevent and to expose all violations of the laws of God and of the country, and whatever is at variance with the objects of the University."

A booklet giving the regulations of the University may be obtained at the Registrar's office. All students are held responsible for a knowledge of these regulations and their proper observance. All women students, except those living in their own homes, are subject to the regulations of the Women's Student Union Association, which has the authority to regulate all matters of student conduct that are not academic in nature or do not fall under the jurisdiction of the faculties or the University Council. The regulations of the Association concerning chaperonage and social engagements, are in force throughout the entire period of a student's residence in Burlington, both before the starting of classes and after final examinations.

SPECIAL REGULATIONS FOR WOMEN

The Dean of Women and the Assistant Dean of Women are in charge of all administrative matters pertaining to University women and, in cooperation with the House Directors and Student Union, formulate house rules and enforce all regulations governing the social life of women students.

The Dean of Women endeavors to assist the women students to make satisfactory adjustments to college life so that the highest possible standards of scholarship may be maintained and a constructive social program may be enjoyed by every student.

A program of student counseling by faculty advisors, the services of vocational guidance specialists and the opportunity for frequent consultation with the Dean of Women are all designed to assist the individual student in solving both academic and personal problems.

Consultation with the parents of prospective students is always welcomed and the needs of each individual student are given careful consideration.

The Assistant Dean of Women gives particular attention to all matters relating to the housing of women students and to opportunities for employment for those desiring to help themselves.

SCHOLASTIC REPORTS

All students enrolled in the Academic Colleges receive reports of scholarship from the Registrar's office twice a year. Special reports of low standing of students in the Freshman and Sophomore classes are sent by the Deans' offices at least twice during the first and at least once during the second semester. All these reports are made both to the student concerned and his parent or guardian.

In the College of Medicine one report is sent covering the work of the college year.

On leaving the University every former student or graduate may procure one photographic transcript of record without charge. Extra copies may be obtained at a cost of one dollar per copy.

Admission

THE ACADEMIC COLLEGES

GENERAL STATEMENT

Candidates for admission to the University of Vermont must be at least sixteen years of age, and must furnish from the Principal of each preparatory school which has been attended, a statement of the courses completed and a recommendation as to moral character and ability to do satisfactory college work. This information is incorporated on the regular admission blank, which should be filed with the Registrar early in the summer of the year in which entrance is sought. An application for registration should be filed by the student on a card furnished by the Registrar's office.

After evaluation of credentials the Registrar's office sends each applicant a notice of acceptance or rejection. Students whose credits are found acceptable must pay \$5.00 as a Registration Fee. The acknowledgment of this fee assures the applicant that a place has been reserved in the University and that living accommodations will be provided. The fee will not be accepted from women until rooming arrangements have been made which are approved by the Dean of Women.

REQUIRED SUBJECTS

For unconditioned admission, all colleges of the University require fifteen (15) units, each unit representing a full year's work with recitations four or five times a week. Of these units, the following are prescribed for curricula in the College of Arts and Sciences:

	UNITS
English (4 years)	3
Language (Ancient or Modern)	2
History or Social Science	1
Algebra (Elementary)	1
Plane Geometry	1

In the College of Engineering, these requirements are modified, one and one-half units in Algebra being prescribed, but the two units of ancient or modern language need not be offered. Solid Geometry, if not

presented must be taken as an extra subject for which a special fee is charged.

In the College of Agriculture the requirements as specified for the College of Arts and Sciences are correct for the Home Economics curriculum. The curricula in Agriculture do not require the presentation of ancient or modern language.

Preparation in this subject-matter is very desirable for anyone who is about to undertake college work at this institution. For this reason entrance conditions are rarely permitted in these subjects. Applicants who are well and fully recommended for admission by the Principal of an approved school, may be permitted to enter with entrance conditions in elective subjects, provided the conditions do not exceed two units. Students having such conditions carry the regular work during the first year, but the condition is removed from the record at the end of the year by a sacrifice of college credit in the amount of three semester hours for each unit or two semester hours for a half unit. The resulting shortage of college credit is made up by a corresponding amount of extra work some time during the last three years or at a Summer Session.

GUIDANCE

Students who plan to enter the University should consult the Principal of their preparatory schools and, if necessary, with University officials for advice and guidance regarding their educational futures. Preparatory courses should be selected in anticipation of unconditioned admission and in correlation with the subject-matter of the college curriculum to be taken. The student should counsel with the Principal as to his personal fitness for college work and for the curriculum to be selected. The student should be informed concerning expenses, self-help opportunities and the possibilities of employment after graduation. After enrollment in the University each student is assigned a faculty counselor. The Deans are always willing to assist students and to advise them in personal and educational matters.

METHODS OF SELECTION

In selecting those applicants who are capable of doing satisfactory college work it is the policy of the University to follow the recommendation of the Principal of the approved school from which the applicant has been graduated. This recommendation is not determined by any one factor, but represents the best judgment of the Principal based on all the facts at his command which pertain to the ability of the applicant and his probable success in college. Recommendations may be given; for admission without

examinations, or with examinations in specified subjects, or with examinations in all subjects.

A recommendation for admission without examination implies that the applicant has a serious purpose in seeking entrance and that he has, in the Principal's judgment, the ability to do satisfactory college work. Examinations in specified subjects may be assigned for the protection of the applicant when important preparatory work is of low grade. Preparatory school graduates whose records do not warrant fairly complete recommendation and who therefore could qualify only by several entrance examinations are presumed to be mentally or temperamentally unfitted for college work and are advised not to attempt to enter.

LIMITED ENROLLMENT

The teaching facilities of the University make it necessary to limit enrollment, especially in scientific and professional curricula. Prospective students are advised to make early application for registration on the regular form provided for the purpose. The acceptance of credits will not assure enrollment unless the admission offer is confirmed by the payment of the five-dollar Registration Fee. Women are not placed on the reserved admission lists until the Dean of Women has approved or arranged rooming accommodations. Owing to state relationships preference is shown to residents of Vermont. Non-residents should make early application.

The enrollment in all acceptable medical colleges is strictly limited by recommendation of the American Medical Association. State appropriations give residents of Vermont preference in selection. The applications of non-residents can be considered only if scholastic records and aptitude scores are conspicuously high.

ADVANCED STANDING

Candidates for admission in advanced standing are required to file a complete statement of entrance and college credit and a letter of honorable dismissal. The regular admission requirements of this institution must be fully met and the prescribed courses and other requirements of the curriculum selected must be completed before a degree will be recommended. It is the policy of the University to reject all applications for transfer except those presenting superior scholastic records and offering compelling personal reasons in justification of the proposed change.

ENTRANCE CREDITS

Of the fifteen units required for unconditioned admission, eight units are prescribed for the curricula in the College of Arts and Sciences and

for the curriculum in Home Economics in the College of Agriculture. For other curricula in the College of Agriculture six units are in the prescribed group. Students applying for admission to the College of Engineering should present the seven units shown below. On special recommendation of a Principal, students of superior scholastic ability may be enrolled without full credit in all subjects of this group. When necessary such entrants are protected by special enrollment. The remaining units may be chosen from the elective and vocational subjects under such restrictions as will be found under the special requirements of the several curricula.

REQUIRED SUBJECTS

COLLEGE OF ARTS AND SCIENCES	UNITS
English (4 years)	3
Algebra (Elementary)	1
Plane Geometry	1
History or Social Science	1
Two years of one Classical or Modern Language	2
	<hr/>
	8
COLLEGE OF ENGINEERING	UNITS
English (4 years)	3
Algebra (Elementary and Intermediate)	1½
Plane Geometry	1
Solid Geometry	½
History or Social Science	1
	<hr/>
	7
*COLLEGE OF AGRICULTURE	UNITS
English (4 years)	3
Algebra (Elementary)	1
Plane Geometry	1
History or Social Science	1
	<hr/>
	6

* Students applying for admission to the Home Economics curriculum in this College are expected to present two units of a classical or modern language, and to enter the second year course in the language presented.

ELECTIVE SUBJECTS

	UNITS
Latin	2, 3 or 4
Greek	2 or 3
French	2 or 3
German	2 or 3
Spanish	2 or 3
Ancient History	$\frac{1}{2}$ or 1
European History	$\frac{1}{2}$ or 1
English History	$\frac{1}{2}$ or 1
American History	$\frac{1}{2}$ or 1
Civil Government or Citizenship	$\frac{1}{2}$ or 1
Social Science	$\frac{1}{2}$ or 1
Economics	$\frac{1}{2}$ or 1
Intermediate Algebra	$\frac{1}{2}$
Advanced Algebra	$\frac{1}{2}$
Solid Geometry	$\frac{1}{2}$
Trigonometry	$\frac{1}{2}$
Physics	1
Chemistry	1
Botany	$\frac{1}{2}$ or 1
Zoology	$\frac{1}{2}$ or 1
Physiology and Hygiene	$\frac{1}{2}$ or 1
Physiography	$\frac{1}{2}$ or 1
General Science	$\frac{1}{2}$ or 1

*VOCATIONAL SUBJECTS

	UNITS
Mechanical Drawing	$\frac{1}{2}$ or 1
Free-hand Drawing	$\frac{1}{2}$ or 1
Shop Work	$\frac{1}{2}$ or 1
Stenography and Commercial Subjects	$\frac{1}{2}$ to 2
*Agriculture	$\frac{1}{2}$ to 2
Home Economics	$\frac{1}{2}$ to 2

* A full year course in a Vocational Subject is credited at one-half unit. The total credit accepted from this group is limited to two units in any one subject and to four units in the entire group. Students applying for admission to the College of Agriculture may receive four units credit in Entrance Agriculture if the work was completed in a school receiving Federal aid in that subject.

THE UNIVERSITY CURRICULA

THE COLLEGE OF ARTS AND SCIENCES

The following general and specialized curricula are offered in the College of Arts and Sciences. Except for the Classical, Literary-Scientific and Social Science curricula the subject-matter of the seven elective units is not restricted. In the General Science, Pre-Medical and Chemistry curricula, however, one year of laboratory science is recommended in preparation.

In the Classical curriculum College Greek and Latin are required. Applicants who do not present the training necessary to undertake these college courses are required to enroll in preparatory courses, for which credit is allowed when the college courses are completed.

In the Literary Scientific curriculum college Latin is prescribed. Elementary Latin is given in two courses, Latin A covering the equivalent of the first two preparatory years, Latin B the last two.

The Social Science curriculum requires the presentation of two years of preparatory Latin though no Latin is required in college. Students who register in this curriculum and do not present two units of Latin must enroll in Latin A.

Classical curriculum	Bachelor of Arts
Literary-Scientific curriculum	Bachelor of Philosophy
Social Science curriculum	Bachelor of Philosophy
General Science curriculum	Bachelor of Science
Pre-Medical curriculum	*Bachelor of Science
Chemistry curriculum	Bachelor of Science in Chemistry
Business curricula (Business, Secretarial and Commercial Teaching)	Bachelor of Science in Commerce and Economics
Secondary Education curriculum	Bachelor of Science in Education

THE COLLEGE OF ENGINEERING

Three curricula are offered; in Civil, in Electrical, and in Mechanical Engineering, each leading to the degree of Bachelor of Science in the field chosen. The subject-matter requirements of the eight elective units are not restricted. Superior students who may be accepted without either Intermediate Algebra, Solid Geometry or both must enroll in a special preparatory course, the fee for which is ten dollars.

* The degree is awarded after the completion of three years in the College of Arts and Sciences and the first year in an approved Medical School.

Students who have completed two years of Mechanical Engineering may enter the Industrial Education curriculum as candidates for the degree of Bachelor of Science in Education.

THE COLLEGE OF AGRICULTURE

This college offers five Agricultural curricula in the fields of Plant Industry, Dairy Production, Dairy Manufactures, Teaching Agriculture in the Secondary Schools, and Agricultural Economics; all leading to the degree of Bachelor of Science in Agriculture. The nine elective entrance units are not restricted. In Home Economics there is a general curriculum and three specialized options in Education, Clothing and Textiles, Food and Nutrition, all leading to the Bachelor of Science degree in Home Economics. The unrestricted electives for that curriculum total seven units as two units of classical or modern languages are regularly required.

It is recommended that a laboratory science be presented by students applying for admission to any curriculum in this college.

ELEMENTARY EDUCATION CURRICULUM

The curriculum in Elementary Education requiring four years for completion, is offered by the University of Vermont and State Agricultural College in cooperation with the State Board of Education. The degree granted, by the Trustees on recommendation of the Head of the Department of Education and of the Senate Committee on Degrees, is Bachelor of Education.

QUALITATIVE ADMISSION REQUIREMENTS

Students who are admitted to the Elementary Education curriculum must have attained a scholastic standing which ranks them in the upper third of their high school graduating classes, except that with the very definite and positive recommendations of their high school principals and superintendents, students whose scholastic standing is between that of the upper third and that of the middle of the class may be accepted, if the quota is not filled before June 1.

A certificate grade in ten or more entrance units will admit a student who is recommended by the principal, provided that *practically* all the subjects taken in the last two years of the high school course were passed with certificate grades, and provided that the applicant meets all other requirements for admission.

Teachers who have completed one or two years of teacher preparation courses beyond high school may be admitted to the Elementary Education curriculum by presenting their high school records and by recommendation of their superintendent, but will not be graduated until all require-

ments for admission and all requirements of this curriculum shall have been met and completed.

Graduates of academic colleges may be admitted to this curriculum but must take not less than thirty semester hours of elementary education subjects, chosen under the guidance of the Head of the Department of Education, in order to meet the requirements for a certificate.

Each candidate, before being finally accepted, must be interviewed by a representative of the Department of Education at the University.

QUANTITATIVE ADMISSION REQUIREMENTS

Every applicant should present satisfactory evidence of having completed fifteen units chosen from the following subjects:

<i>Recommended Subjects:</i>	UNITS
English (4 years)	3
History	1
Mathematics	1
Science	1
	—
	6

Limited and Free Electives (9 units) to be selected from the following:

	UNITS
Classical or Modern Language	2, 3 or 4
History and Social Science	1 or 2
Mathematics	1 or 2
Science	1 or 2
Fine and Practical Arts	1
Commercial Subjects	1
*Free Electives (maximum)	3

HEALTH REQUIREMENTS

A certificate of good health and physical fitness must be furnished by each applicant from a practicing physician upon a blank furnished by the State Department of Education. In addition a physical examination is required of the applicant by the University. *Students with marked physical defects which would interfere with their success as teachers are not eligible for admission and should not apply.*

* These units of "Free Electives" may consist of any work which the high school accepts as meeting its graduation requirements.

CHARACTER AND PERSONALITY REQUIREMENTS

The high school principal must furnish on blanks provided by the State Department of Education an estimate of the applicant's character and personality based upon the following traits:

1. Honesty.
2. Reliability.
3. Consideration for others.
4. Acceptance of responsibility.
5. Loyalty.
6. Good judgment.
7. Adaptability.
8. Poise.
9. Dignity
10. Forcefulness.
11. Refinement.
12. Leadership.
13. Cooperation.
14. General personality.
15. Good citizenship.

GUIDANCE

High school principals or those having the responsibility for the guidance and counseling of high school pupils are urged to assist students in their efforts to learn the qualifications which are demanded of teachers. Students should not be recommended for admission to the Elementary Education curriculum at the University unless they possess qualities of personality, character, health, physical fitness, intellectual ability and interest, which will justify the belief that they will become competent teachers.

Students from other states who meet all the entrance requirements may be admitted to the Elementary Education if the maximum enrollment is not filled by Vermont students. The tuition charge for non-residents is \$150 per year.

THE MUSIC EDUCATION CURRICULUM

This curriculum is offered by the University of Vermont and State Agricultural College under the sponsorship of the Departments of Education and Music. Students who qualify for admission to any University curriculum are eligible to enroll provided their training and aptitude in music meets the selective requirements and tests of the Department of Music. Enrollments in Music Education must have the written acceptance of the Head of this Department. The tuition charge, after September 1, 1941, is \$350 per year. The Applied Music courses which are required are charged at one-half the regular rates. The degree is Bachelor of Education in Music, awarded on recommendation of the Heads of the Departments of Education and of Music approved by the Senate Committee on Degrees.

THE INDUSTRIAL EDUCATION CURRICULUM

This curriculum is offered in cooperation with the State Board of Education. The degree of Bachelor of Science in Education is given by the University of Vermont and State Agricultural College on recommendation of the Head of the Department of Education and the Senate Committee on Degrees.

Since the first two years correspond closely with the requirements of the curricula in the College of Engineering, the admission requirements of that college are the standard for all students who choose this curriculum.

METHODS OF ADMISSION

Applicants for admission to the undergraduate colleges of the University may satisfy the requirements either by *recommendation* or by *examination*.

ADMISSION BY RECOMMENDATION

Graduates of Vermont schools, which are approved by the State Board of Education, are qualified for admission without examination, provided the preparatory work covers the necessary subjects, and provided the student receives the recommendation of the principal of the high school from which he has been graduated. Approval may be granted to any school outside of Vermont that is accredited in its own locality. The certificates and diplomas of the Regents of the University of the State of New York will be recognized in all acceptable subjects. Applications should be made to the Registrar of the University.

All students admitted on recommendation of the principal are regarded as being on trial during the first half-year. Certificate statements of secondary work are not accepted in lieu of scheduled courses in the University. Surplus entrance credit may be established as college credit only by advanced standing examination.

Admission certificates must be filled out by the high school principal, after graduation, on the forms provided by the University. An application for registration should be filed early in the year in which entrance is sought.

ADMISSION BY EXAMINATION

UNIVERSITY ENTRANCE EXAMINATIONS

Two regular examination periods for admission to the Freshman class are held each year, the schedules of which are given below. The Univer-

sity makes no charge for these examinations to *bona fide* applicants for admission.

The June examination may be taken at the University or at such places as may be selected. Requests for examinations outside of Burlington, to be taken at the same time as the corresponding examinations at the University, should be made to the Registrar before the first day of June. *The September examinations are held only at the University.* A candidate for admission to the Freshman class may take all the examinations at one period or may divide them between the two examination periods. No applicant will be admitted to the entrance examinations unless a detailed statement of his high school record has been previously filed with the Registrar. All examinations must be taken within sixteen months of the time of entering.

Students entering entirely by examination are given the option of comprehensive examinations in four or five fundamental subjects, provided secondary work has been taken covering the subjects required for admission.

SCHEDULE OF THE UNIVERSITY ENTRANCE EXAMINATIONS FOR 1942

Wednesday, June 10, and Friday, September 11.

- 9.00-10.45 A.M.—History (Ancient and English); Civics.
- 11.00 A.M.-12.45 P.M.—History (European and American).
- 4.00- 5.45 P.M.—Latin III & IV; Botany.
- 2.00- 3.45 P.M.—Latin II.

Thursday, June 11, and Saturday, September 12.

- 9.00-10.45 A.M.—French II.
- 11.00 A.M.-12.45 P.M.—French III; Greek; Physiography.
- 2.00- 3.45 P.M.—German II; Spanish.
- 4.00- 5.45 P.M.—German III; English.

Friday, June 12, and Monday, September 13.

- 9.00-10.45 A.M.—Chemistry; Zoology.
- 11.00 A.M.-12.45 P.M.—Physics; Physiology.
- 2.00- 3.45 P.M.—Algebra and Trigonometry.
- 4.00- 5.45 P.M.—Plane and Solid Geometry.

In the above schedule, I means first year's work in the topic; II, second year's work; III, third year's work; and IV, fourth year's work.

In 1943 the examinations will be held on June 9-11 and September 10-13.

Dates for subjects not scheduled will be assigned by the Registrar upon request. Students having conflicts should report to the Registrar in order that a schedule adjustment may be made.

Passing an advanced examination in a language will preclude the necessity of elementary examination in the same subject.

COLLEGE BOARD ENTRANCE EXAMINATIONS

The entrance examinations of the College Entrance Examination Board will be held at Room 265, Waterman Building, June 12, 13, 1942.

Detailed definitions of the requirements in all examination subjects are given in a circular of information published annually about December 1. Upon request to the Secretary of the College Entrance Examination Board a single copy of this document will be sent to any teacher without charge. In general, there will be a charge of thirty cents, which may be remitted in postage.

All candidates wishing to take these examinations should make application by mail to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. Blank forms for this purpose will be mailed by the Secretary of the Board to any teacher or candidate upon request by mail.

The applications and fees of all candidates who wish to take the examinations in June, 1942, should reach the Secretary of the Board not later than the dates specified in the following schedule:

For examination centers:

In the United States east of the Mississippi River on the Mississippi	May 25, 1942
In the United States west of the Mississippi River or in Canada or Mexico	May 18, 1942
Outside of the United States, Canada, and Mexico	May 4, 1942

An application which reaches the Secretary later than the scheduled date will be accepted only upon payment of five dollars in addition to the regular examination fee of ten dollars.

When a candidate has failed to obtain the required blank form of application the regular examination fee will be accepted if the fee arrives not later than the date specified above and if it be accompanied by a memorandum with the name and address of the candidate, the exact examination center selected, and a list of the subjects in which the candidate is to take the Board examinations.

When the examination supplies of the local Supervisor permit, candidates who have failed to file an application with the Secretary may be admitted, upon payment to the local Supervisor of a fee of five dollars in addition to the regular fee, to all examinations except the Scholastic Aptitude Test. Such candidates should present themselves at the beginning of the period of registration. A candidate who registers with the

Supervisor will receive from him a blank form of application and an Identification Card which must be filled out and handed to the Supervisor for transmission to the Secretary of the Board.

In order to exhibit their tickets of admission, to present their identification cards and to obtain seats in the examination room, candidates should report for a morning examination at 8.45 and for an afternoon examination at 1.45. An examination will close for candidates admitted late at the same time as for other candidates. The examinations will be held in accordance with the time, Standard Time or Daylight Saving Time, observed in the local schools.

No candidate will be admitted to the Scholastic Aptitude Test late, that is, after the test has begun.

The Scholastic Aptitude Test may be taken upon the completion of the school course or at the end of the third year of secondary school work. Each candidate desiring to take this test, even though he is to take no other examination, must file with the Secretary of the Board the usual application for examination. Every candidate who registers for the test will receive a practice booklet containing a specimen test with blank spaces to be filled in by the candidate. In order to secure admission to the test, the candidate must present not only his ticket of admission but also this booklet with the spaces filled in as requested. If the Scholastic Aptitude Test is taken in connection with other examinations, no additional fee is required; if taken alone, the fee is ten dollars.

ENTRANCE SUBJECTS

LANGUAGES

ENGLISH. The requirement in English is designed to develop in the student the ability to read with understanding, and to express himself clearly and accurately. This training is to be viewed not merely in its bearing upon the student's work in courses in English, but in its relation to his work in all other subjects.

A fundamental aim in the study of *literature* is to develop the student's enjoyment of good reading, and his recognition of the varied elements in literature, particularly the artistic, social, and personal. No formal process of study should obscure this aim. Any carefully organized course of secondary school study of literature should recognize the importance of immediate interest in the thing read, and of clear understanding of its content and of its general significance in relation to author, period, type, and social background. The measure of the student's achievement in literature will be ability to discuss his reading intelligently, and

with a usable knowledge of elementary critical terms. A satisfactory course should therefore provide a sufficient acquaintance with traditionally great literature and with recognized literary types.

Training in *composition* aims to stimulate the student's original powers of expression, both logical and imaginative, and to enable him to develop and organize his material in a way that reflects his own incentives and interests.

The test in composition will assume continuous and thorough training in mechanics. This training implies a mastery in practice of the essentials of grammar as an aid to the discussion of phraseology, syntax and general structure, and of problems of meaning and interpretation. It implies also habitual correctness in punctuation, spelling, capitalization, and sentence and paragraph construction. In addition, it assumes a reasonable maturity of vocabulary, and such a command of varied and flexible sentence forms as may be expected from systematic training in language as the effective instrument of thought. Such instruction necessitates constant and painstaking practice by the candidate in criticism and revision of his own written work.

It is important that as far as possible the student be taught to use library facilities such as dictionaries, encyclopedias, card catalogues, indices, periodicals, readers' guides, and other works of reference.

The *examination* assumes a close and thoughtful acquaintance with a substantial amount of worthy literature, and a general knowledge of the more important literary types. These should include Drama, Prose Narrative, Poetry, Essays, Biography and Miscellaneous Prose.

Teachers and students are referred to a list of suggested readings in English published annually by the College Entrance Examinations Board, 431 West 117th Street, New York City.

However accurate in subject-matter, no entrance paper in English will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination may be divided into two parts, one on grammar and composition (2 UNITS), and the other on literature (1 UNIT).

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies. The main test in composition will consist of one or more essays, developing a theme through several paragraphs. The subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading.

FRENCH. The first year of French should include the elements of the grammar, careful drill in pronunciation, abundant writing of easy French prose. In the grammar, one year's work should cover the essential ele-

ments. The reading should represent the completion of a good reader and about 100 pages of such simple texts as *Contes de Fées*, *Halévy's Abbé Constantin* or Laboulaye's *Contes bleus*. The second year's work should include a more detailed study of the grammar, and the reading of about 250 pages of French prose and poetry of average difficulty, practice in translation at sight, ability to translate into French English sentences of moderate difficulty. The grammar should represent the content of a standard French grammar. Suitable texts are: About, *Le Roi des Montagnes*; Lamartine, *Scènes de la Révolution française*; Mérimée, *Colomba*; Labiche and Martin, *Le Voyage de M. Perrichon*; Malot, *Sans Famille*, etc. (2 UNITS.)

The third year should include thorough study of the grammar and the reading of about 300-400 pages of standard French, together with practice in translating into French passages of connected English. Part II of Fraser and Squair's *French Grammar*, or a work of similar content, would satisfy the requirement. Suitable texts are: Hugo, *Hernani* or *Ruy Blas*; Sandeau, *Mlle de la Seiglière*; Loti, *Pêcheur d'Islande*; Balzac, *Eugénie Grandet*; Daudet, *la Belle Nivernaise*; Thiers, *Expédition de Bonaparte en Egypte*; Corneille, *Le Cid*; Molière, *le Bourgeois Gentilhomme*; Racine, *Athalie*.

Dictations should be employed frequently to accustom the ear to the sounds of the spoken language. In the second and third year it will be found useful to devote some time to abstracts and paraphrases in French of portions of the works read. Where possible elementary practice with conversational exercises is desirable. (1 UNIT.)

GERMAN. In Elementary German, which presupposes two years of work, the chief aim should be the ability to read with comprehension easy German prose. As a means to the acquisition of this ability, particular attention should be given to accurate pronunciation, to oral and aural drill, and to the building up of a vocabulary of common words and expressions. The study of grammar during the first two years is regarded as subsidiary to the acquisition of reading ability. This reading knowledge may be tested by translation of sight passages or by English answers to German questions on passages set. In the first year, 75 to 100 pages should be covered in class, a slightly smaller amount of very easy material as collateral reading outside class. In the second year, the amount covered in class should be 200 to 250 pages, with collateral reading of easier texts totaling 150 to 200 pages. Some of the material read may deal with physical and historical aspects of Germany. The following texts, arranged in approximate order of difficulty, are suggested: Wiens' *Bilderlesebuch*, Zeydel's *Elementary German Reader*, Storm's *Immensee*, Heyse's

L'Arrabbiata, Gerstäcker's *Germelshausen*, Kästner, *Emil und die Detektive*, and Purin and Rose's *Deutsche Kulturkunde*. (2 UNITS.)

In the third year, 400 or more pages of prose and poetry from the works of standard authors should be read in class, 300 or more pages outside class. Emphasis should also be placed on a command of simple German in speech and in writing. The following are suitable texts: Freytag, *Die Journalisten*; Lessing, *Minna von Barnhelm*; Schiller, ballads, *Wilhelm Tell* and *Die Jungfrau von Orleans*; Goethe, some poems and *Hermann und Dorothea*; Heine, poems and *Die Harzreise*; Sudermann, *Frau Sorge*; Kästner, *Drei Männer im Schnee*; Bahr, *Das Konzert*. (1 UNIT.)

GREEK. A thorough knowledge of the common grammatical forms and elementary construction of Attic Greek; Xenophon's *Anabasis*, four books; the translation into Greek of simple sentences based on the *Anabasis*, and the translation into English of a previously unseen passage from some work of Xenophon. (2 UNITS.)

Homer's *Iliad*, three books; the translation of a previously unseen passage, which presents no great difficulties, from the Homeric poems; the Homeric metre, the simpler forms and constructions of the Homeric dialect, and a certain degree of familiarity with contents, literary character and background of the Homeric poems; the translation into prose Greek of a simple connected passage based on Book II of the *Anabasis*. The candidate may offer equivalents for the suggested readings. (1 UNIT.)

LATIN. There is no prescription either of the amount to be read or of particular authors. It is recommended, however, that the classical Latin read in the last three years of the high school course or their equivalent be no less in amount than the following: Second year, Cæsar, *Gallic War*, Books I and II; Third year, Cicero, the first three orations *Against Catiline*, the oration *In Behalf of the Poet Archias*, and the oration *For the Manilian Law*; Fourth year, Virgil, *Aeneid*, about three thousand lines. The essential point is not the amount read but the command of vocabulary, forms and syntax which the entering student has actually acquired.

The examinations are of two types and all candidates may choose between them: Type I, (a) a passage or passages for translation into Latin; (b) passages of Latin prose and poetry for translation at sight. Type II, (a) a passage or passages for translation into Latin; (b) passages of Latin prose and poetry for translation at sight; (c) passages for translation taken from the following works, which are recommended as part of the high-school reading: Cæsar, *Gallic War*, Book II; Cicero, the oration *In Behalf of the Poet Archias*, and the first oration *Against Catiline*; Virgil, *Aeneid*, Books IV and VI.

Examinations of both types contain questions on subject-matter, literary and historical allusions, and prosody, as well as on forms and syntax.

Examinations may be taken for 2 UNITS, 3 UNITS or 4 UNITS credit.

SPANISH. A year's study of Spanish should assure a knowledge of the elements of the grammar, ability to pronounce accurately, to translate easy Spanish prose, and to turn into Spanish simple English sentences. At least 100 duodecimo pages should be read, and careful drill given in pronunciation. The student should have learned the conjugations of the regular, radical-changing and the more common irregular verbs. In the second year the work should include the reading of about 200 to 300 pages of Spanish of average difficulty, mastery of the grammar and syntax, with frequent exercises in composition. The student should complete his knowledge of the radical changing and irregular verbs with the exception of rare verbs and forms. Suitable texts are: Juan Valera, *El pájaro verde*; Pérez Escrich, *Fortuna*; Ramos Carrión Vital Aza, *Zaragüeta*; Palacio Valdés, *José*; Pedro de Alarcón, *El Capitán Veneno*; de Alarcón, or Antonio de Trueba, selected short stories; Spanish-American stories (collections published by Ginn, Holt, etc.).

Throughout the course dictation should be employed to accustom the ear to the sounds of spoken Spanish. From time to time abstracts and paraphrases may be made in Spanish of portions of the works read. Where possible, elementary conversational exercises are desirable. During the two years regular practice in pronunciation should not be neglected. (2 UNITS.)

HISTORY

Each unit allowed for entrance in History presupposes one year of formal study in the particular subject, using a standard text. It is expected that appropriate selections which give the student some acquaintance with sources and contribute to the historical background, shall have been read. There should be instruction in comparing historical characters, institutions, periods, and events and in tracing the steps in the development of important movements through a considerable period of time. Practice should be given in locating places, areas, boundaries and routes which are historically important.

One-half or one unit may be presented in any of the following subjects: Ancient History, European History, English History, and American History.

ANCIENT HISTORY The course should devote one-half of the year to the study of the ancient Orient and Greece as far as the death of Alex-

ander and the break-up of his empire, with the expansion of Greek culture in the Mediterranean World. The second half-year should be devoted to the study of the history of Rome to the year 476 A. D.

Since not more than one-tenth of the whole time available can be allotted to the study of the history of the Orient, only so much of its narrative history should be studied as will hold the story together and fix its geography and its time relations. Emphasis should be laid not upon the details of military and political history but upon the civilization developed by the different peoples of the Orient, with particular reference to the contributions which they made to later ages.

In the study of Greek history, little time should be spent on the period prior to the Persian Wars, except to deal concretely with Homeric society and to emphasize the expansion of Hellas. From the Persian Wars to the death of Alexander the study should be exact and thorough, with special reference to the political, intellectual, and artistic development of Hellas during the Age of Pericles. Instead of trying to trace the constitutional development of Athens and Sparta from the beginning, the operation of the government in these states at the time of their maturity should be mastered.

In the period following the death of Alexander no attempt should be made to follow the intricate political history of the time, but opportunity should be found to study the federal government of Greece, and the philosophy, literature, art, and religious cults which were the factors of the mixed Graeco-Oriental culture of which Rome became the heir.

At the beginning of the second half-year the history of Rome to about the year 300 B.C. should be covered very rapidly. The attempt should be made rather to understand the organization and working of Senatorial government in the third and second centuries B.C. than to trace the changes made in Roman institutions in the fifth and fourth centuries. From 300 B.C. to the death of Marcus Aurelius the study must be relatively detailed and thorough. ($\frac{1}{2}$ OR 1 UNIT.)

EUROPEAN HISTORY. Students who are offering Modern European history should emphasize the absolute monarchy of Louis XIV, colonial expansion and rivalries, the development of the constitutional monarchy in England, the enlightened despotism of Frederick the Great, the republican government of Revolutionary France, the Napoleonic epoch, and the main facts in the political development of Europe since 1815. Special emphasis should be laid upon the industrial Revolution—its political and social aspects—upon the growth of nationalism and democracy, and upon the economic expansion of the European possessions outside of Europe. The study of the last half-century should include some account

of the great material changes, important inventions, and intellectual and social and humanitarian movements.

Students who are offering Medieval and Modern European history should emphasize the contributions of the Roman Empire, the Germans, and the Christian Church to medieval civilization. The structure of feudal society, the Crusades, the formation of the European states, the several phases of the Renaissance and of the Reformation, and the discoveries outside of Europe should be covered. Students who are offering this subject will not be held to so detailed a knowledge of the nineteenth century as those offering Modern European history. ($\frac{1}{2}$ OR 1 UNIT.)

ENGLISH HISTORY. The division of the work between the two half-years should be made at about 1660.

During the first half-year, the periods of the Tudors and the early Stuarts should receive emphasis. Only the briefest reference to the period before 1066 need be made, and from the Norman Conquest to the accession of the Tudors the treatment should be topical rather than exhaustive. It should deal with the effects of the Norman Conquest, relations with France, Scotland, and Ireland, Magna Carta and the origins of Parliament, and the emergence of parliamentary government out of the feudal monarchy. Some attempt also should be made to explain the development and character of the Christian Church in England, its relations with the papacy, the severance of these relations, the establishment of the national church, and the Puritan movement.

In the second half-year, starting with the Restoration, attention should be given first to the continued struggle between Crown and Parliament, culminating in the establishment of responsible government. In studying the great wars with France, attention should be directed to the commercial and colonial expansion in America and the East. With regard to imperial policy, the causes and effects of the Scottish and Irish unions and the revolt of the American colonies should be explained. The study of the revolution in agriculture, industry, and transportation should include some consideration of the consequent political and social reforms. Since the Reform Act of 1867, emphasis should be laid upon the more important reforms affecting economic, political, and social life, and upon the problem of Ireland. Some idea should be given of the growth and nature of the British power in the colonies and the problem of imperial organization.

In general, it is desirable to emphasize the important epochs and movements rather than the reigns of the monarchs; to trace developments; to secure a clear comprehension of the more influential personalities; and to show the relations of English history to the history of other countries, especially the United States. ($\frac{1}{2}$ OR 1 UNIT.)

AMERICAN HISTORY. The period of American history prior to 1763 may be treated briefly as a background for subsequent epochs. The period since the Civil War should receive adequate attention (about as much time as the period between 1763 and 1865). Questions on current events will not be asked.

For the guidance of both the teacher and the student, it is suggested that careful attention should be paid to map studies; that the topics of slavery and secession should not be emphasized at the expense of the study of territorial expansion and social and industrial growth; that due attention should be paid to the policy of the United States in foreign affairs, tariff, banking, civil service, currency, trusts, conservation of natural resources, capital and labor, immigration, and other present-day problems; and that familiarity with the lives and public services of great Americans should be especially encouraged. ($\frac{1}{2}$ OR 1 UNIT.)

CIVIL GOVERNMENT. The candidate should have an accurate knowledge of government as described in such text-books as *Essentials of American Government* by Mathews, *The Citizen and the Republic* by Woodburn and Moran, *Government in the United States* by Garner, and *Social Civics* by Munro and Ozanne. Emphasis is placed on governmental organization and functions, but the candidate must also be familiar with the social, economic, and historical factors which affect the duties and activities of citizens. ($\frac{1}{2}$ OR 1 UNIT.)

MATHEMATICS

ALGEBRA TO QUADRATICS. The examination will presuppose a knowledge of the meaning, use, evaluation, transformation and derivation of formulas; the construction and interpretation of graphs, the meaning and use of negative numbers; solution of simple and simultaneous linear equations, with verification; ratio, proportion, and variation; the essentials of algebraic technique; exponents and radicals; numerical trigonometry. (1 UNIT.)

INTERMEDIATE ALGEBRA. The topics should include numerical and literal quadratic equations; the binomial theorem for positive integral exponents, with applications; arithmetic and geometric series; simultaneous linear equations in three unknown quantities; simultaneous quadratic equations, with graphs; exponents and radicals; logarithms. ($\frac{1}{2}$ OR 1 UNIT.)

ADVANCED ALGEBRA. The topics of advanced algebra should include permutations and combinations; complex numbers with graphical representation of sums and differences; simple determinants, including the use of minors and solution of linear equations; numerical equations of higher degree, and elementary aspects of the theory of equations including the remainder theorem and its applications, coefficients as symmetric functions

of roots, condition for rational roots, conjugate complex roots of equations with real coefficients, Descarte's Rule of Signs, and simple transformations; graphical location and determination of roots to two or three significant figures. ($\frac{1}{2}$ UNIT.)

PLANE GEOMETRY. The usual theorems and constructions of good textbooks, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces. The aim of the instruction should be the formation of the habit of clear and concise expression, and to this end the classroom work should be largely oral. (1 UNIT.)

SOLID GEOMETRY. The usual theorems and constructions of good textbooks, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders and cones; the sphere and the spherical triangle. The solution of numerous original exercises including loci problems. Applications to the mensuration of surfaces and solids. ($\frac{1}{2}$ UNIT.)

TRIGONOMETRY. The topics should include definitions of the six trigonometric functions of angles of any magnitude as ratios; circular measurements of angles. Proofs of principal formulas, in particular, for the sine, cosine and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of simple trigonometric equations. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications. ($\frac{1}{2}$ UNIT.)

SCIENCES

BOTANY. Elementary work in the structure and physiology of seed plants together with an introduction to their classification as outlined in any recent textbook. Work on the lower groups of plants and histological studies, if undertaken at all, should be secondary. Individual laboratory work by the student is essential. Records of laboratory work with accurate drawings and precise description should be handed in at the time of the examination. ($\frac{1}{2}$ OR 1 UNIT.)

CHEMISTRY. The requirements should be the equivalent of a course based on one of the recognized secondary school texts.

Greater importance is attached to training in observation and to a knowledge of the properties of common chemical substances than to an understanding of purely theoretical conceptions.

An original, uncopied, laboratory notebook, containing any comments and corrections that may have been made by the instructor must be presented by the candidate at the time of the examination. (1 UNIT.)

PHYSICS. Preparation should include the study of a standard text-book, instruction by lecture-table demonstration and individual laboratory work.

The classroom and lecture instruction should aim to give the student a clear and comprehensive view of the general principles of the subject with their applications to various natural phenomena and to practical problems.

The laboratory work should fix these general principles in the student's mind and render them more concrete. The student should develop a habit of accurate observation and should understand the scientific method of basing theories and principles upon experiment. Emphasis should occasionally be placed on the accuracy of the measurements and on the reliability of the conclusions drawn from them.

Every candidate must present at the time of the examination, a notebook certified by the teacher and containing in the candidate's own language a description of the laboratory exercises with a careful and systematic record of observations made and of conclusions drawn. (1 UNIT.)

PHYSIOGRAPHY. The elements of Physiography or Physical Geography as presented in standard secondary school texts. The earth as a globe, the oceans, the atmosphere, the land. Individual laboratory work, including field trips. The notebook should be presented at the time of examination. ($\frac{1}{2}$ OR 1 UNIT.)

PHYSIOLOGY AND HYGIENE. The elements of human Physiology and Hygiene, as included in standard secondary school texts. In addition to textbook work, laboratory exercises, such as dissections of animals and organs, and the use of models and charts are advised. Some study of tissues by the aid of the microscope is also valuable. Precise notes should be taken and accurate sketches made of objects observed in the laboratory work. These notes and sketches should be presented at the time of examination. ($\frac{1}{2}$ OR 1 UNIT.)

ZOOLOGY. Biology of animals, including study of the great groups, as represented by the following: Amoeba, Paramecium, sponge, Hydra, starfish, earthworm, crayfish, insect, clam, fish, frog, bird, mammal. The course should consist of laboratory study of at least eight of the above with notebooks containing original drawings, supplemented by a standard text book. The notebook and drawings should be submitted at the time of examination. ($\frac{1}{2}$ OR 1 UNIT.)

VOCATIONAL SUBJECTS

FREE-HAND DRAWING. The candidate should be able to sketch free-hand, with fair accuracy, simple geometrical figures and their combinations; to sketch from the object with reasonable facility and correctness, geometrical models, simple objects or parts of machines; to sketch from the copy, either enlarging or reducing, simple objects or plain details of machinery. Correctness of proportion, accuracy in the relations of parts of figures and neatness in the execution of the work should be secured. A fair knowledge of perspective and the application of light and shade in free-hand sketching is necessary.

At least twenty drawings representing a year's work in the preparatory school, should be submitted for the lower requirement in this subject, each bearing the certificate of the instructor in charge of the work. ($\frac{1}{2}$ OR 1 UNIT.)

MECHANICAL DRAWING. The candidate should always have a knowledge of the proper methods of using the T-square, triangles, and other drawing instruments, with special reference to their use in drawing parallel lines, erecting perpendiculars and in drawing arcs of circles and irregular curves.

The plates presented should include examples of geometric constructions, orthographic projections, isometric projection and working drawings of simple objects. It is not desirable that all plates be inked. ($\frac{1}{2}$ OR 1 UNIT.)

SHOPWORK. The candidate should present evidence of sufficient training to enable him to execute a piece of work with skill, accuracy and neatness in each of the branches offered for admission; should be acquainted with the materials used in the various classes of work and understand the physical properties of these materials; should have a good working knowledge of the tools and machines of the different branches of shopwork and understand their care and operation. It is especially necessary that he should have a thorough understanding of the process used and the principles involved in all of the work that he does.

In woodworking, forge work and foundry work one year's time is required in preparation for each subject, and in machine shopwork two years' time.

A detailed statement of the work done must be presented, signed by the school instructor or shop superintendent. ($\frac{1}{2}$ OR 1 UNIT.)

STENOGRAPHY. Speed and accuracy are the tests of the candidate's preparation in this topic. A speed of sixty words per minute is required. ($\frac{1}{2}$ OR 1 UNIT.)

COMMERCIAL SUBJECTS. A limited amount of credit is allowed in certain cases, for high school courses in commercial subjects. ($\frac{1}{2}$ TO 2 UNITS.)

AGRICULTURE. The requirements are those established by (a) the State Board of Education for approved courses in schools not receiving the benefit of Federal appropriations under the Smith-Hughes or George-Deen Acts; or (b) by the State Board of Vocational Education for approved courses in schools receiving the benefit of Federal appropriations under the Smith-Hughes or George-Deen Acts. A half unit of credit may be accorded upon the completion of each year of the former course which year comprises three double and one single period per week throughout the year, together with an acceptably executed program of supervised practice work. ($\frac{1}{2}$ TO 2 UNITS.)

From 1 to $1\frac{1}{2}$ units credit may be accorded for the completion of each year of the Federal aid course, which year comprises five double periods per week throughout the year together with an efficiently planned, executed and accounted six-months' program of supervised practice. In no case can more than four units be used for college entrance and this maximum only in the College of Agriculture. The report of the State Supervisor of Agricultural Education will be considered in determining the exact amount of credit in each case. (1 TO 4 UNITS.)

HOME ECONOMICS. The requirements are set forth in the "Course of Study in Home Economics" issued by the State Board of Education and apply to all approved courses whether or not the schools receive the benefit of Federal appropriations under the Smith-Hughes or George-Deen Acts. A half unit of credit may be accorded upon the completion of a course comprising a minimum of one single and three double weekly periods per year; one unit upon the completion of a course comprising a minimum of five double weekly periods per year. Advanced work completed in a Federal aid course consisting of lecture and laboratory work may be accepted for an additional unit in the College of Agriculture. The report of the State Supervisor of Home Economics Education will be considered in determining the exact amount of credit in each case. ($\frac{1}{2}$ TO 2 UNITS.)

SPECIAL AND UNCLASSIFIED STUDENTS

Under the usual entrance requirements of the University, persons of suitable age and attainment, by the payment of specified fees, may pursue certain studies in connection with the regular college classes, either as special or as unclassified students. This privilege will not be extended to students who are disqualified for admission to one of the regular curricula. It is intended primarily for the accommodation of those whose previous

study and attainments enable them to pursue with profit special courses of study in particular departments. Special students will be registered and enrolled in the same manner as regular students, and from the time of their admission will be subject to all regulations of the University. Credit for courses completed as a special or unclassified student may be counted toward a degree.

The Registration Fee is \$5.00 and it is payable by all who have not previously been enrolled in the regular session.

The tuition charge is \$11.75 per semester hour, the usual laboratory and breakage fees being additional. Special students are not eligible to hold University scholarships.

ADMISSION TO ADVANCED STANDING

Applicants for advanced standing presenting credentials from another recognized university or college may be accepted without examination by transfer of credits. A certified statement of all entrance and college work must be presented together with a letter of honorable dismissal. Admission of students having low scholastic records will not be considered and those who are dropped from other institutions will not be enrolled in the University.

Students who apply for transfer from institutions not fully recognized, but who are otherwise acceptable, and recommended applicants who have attended or graduated from a well-established junior college, will be referred to the heads of University departments concerned. By interview or, if necessary, advanced standing examination, the placement of the student in University courses is determined. This credit is provisional, pending the completion of a year of satisfactory college work.

Students who wish advanced standing will not be admitted under conditions more favorable than could be obtained at the institution from which transfer is sought. As it is the general policy of the University not to admit students by transfer, no applicant can be accepted unless his scholastic record is high and personal reasons are presented that fully justify the proposed change.

PRELIMINARY REGISTRATION PROGRAM

The three days immediately preceding the opening of class work are devoted to certain preliminary events designed to facilitate the adjustment of freshmen to conditions of life and study at college. Freshmen are, therefore, required to register at the Gymnasium at 9 o'clock, Tuesday morning, and to attend a series of meetings and conferences scheduled for Tuesday, Wednesday and Thursday of the opening week of the Univer-

sity year. The full schedule of events is given in a special circular, "*Program of Preliminary Freshman Days*," which is sent to all prospective freshmen by the Registrar.

All new students are given a standard intelligence test at the opening of the college year. Freshmen also take a silent reading test and analysis of work interest test. The scores are used in advising students regarding the course of study to pursue, and vocational plans. Personal data, physical examination and placement tests are also included in the program.

ENROLLMENT

Every student is required to register and enroll on the designated days. Enrollment for the second semester occurs on Saturday before the first day of that semester. A receipt from the Treasurer showing that tuition charges for the ensuing half-year have been paid, must be presented before enrollment can be completed. Directions for enrollment are published for each semester.

After enrollment, no change of studies will be allowed except such as are authorized by the Dean of the college of the University in which the student is registered. After two weeks from the beginning of the semester no enrollment or change of studies will be permitted.

THE COLLEGE OF MEDICINE

PRE-MEDICAL PREPARATION

All students who expect to apply for admission to the College of Medicine are advised to complete a four year curriculum in the College of Arts and Sciences and earn a bachelor's degree. Such preparation receives preference if the work completed includes all the courses shown in the Pre-Medical curriculum offered in the College of Arts and Sciences.

The minimum preparation is three years liberal arts work as outlined in the Pre-Medical curriculum of the College of Arts and Sciences (see index). This curriculum leads to a bachelor's degree after the completion of the first year in any approved Medical School. In Chemistry it includes, Inorganic and Organic, Qualitative and Quantitative analysis, and Physical Chemistry. It prescribes, general laboratory courses in Botany and Zoology, Embryology, Cytology and Physics, as well as other non-Science courses. All the courses in this curriculum have been required of all students who have entered the College of Medicine since September, 1941, and thereafter.

The Admissions Committee expects applicants to have completed a program very much as outlined. At the same time the Committee may, at

its discretion, give favorable consideration to applicants who have not found it possible to follow in close detail the premedical curriculum provided that they have completed three years of college work and are able to show acceptable credit in the required courses.

SELECTIVE ADMISSION PROCEDURE

Since enrollment in the first year class of the College of Medicine must be limited to approximately thirty students, the full responsibility for the selection of these students has been delegated to a Medical Admissions Committee.

Because of an appropriation to the College of Medicine by the State of Vermont, the applications of residents of this State are given preference. After qualified Vermont students have been registered, the applications of sons and daughters of the graduates of the University of Vermont are considered. If vacancies should remain after these two groups have been examined, the quota will be filled from the best qualified applications of non-residents.

The eligibility of an applicant for enrollment in the first year class is finally determined by the Medical Admissions Committee. In its selections the Committee considers three factors:

1. The quality and quantity of the pre-medical training.
2. The score received in the Medical Aptitude Test which is given annually throughout the country under the auspices of the Association of American Medical Colleges.
3. The personality and general fitness of the applicant for the study of medicine, as determined, in part, by personal interview of the applicant with the Medical Admissions Committee. The Committee will not interview students with unsatisfactory scholastic records or a low score in the Aptitude Test.

Application blanks may be secured from the Dean upon request. Students having low scholastic records are advised not to apply.

ADVANCED STANDING

In general, vacancies arising in the three upper classes will not be filled. In its discretion, however, the Medical Admissions Committee may entertain applications of well qualified residents of this State who have done medical work in other acceptable medical schools. No applicant for advanced standing will be enrolled under more favorable conditions than would obtain if the student were to continue at the school first attended. All applications from students having conditions or low scholastic records will be refused.

Courses of Instruction

The University offers instruction in four colleges:

The College of Arts and Sciences

The College of Engineering

The College of Agriculture

The College of Medicine

In all colleges, except Medicine, the undergraduate courses are numbered from 0 to 99; those courses which may be taken for undergraduate or graduate credit are numbered from 100 to 199. Courses offered for graduate credit only are numbered from 200 to 299. The courses in Elementary Education are numbered from 300 to 399. The courses in Elementary and Industrial Education are offered by the Department of Education.

Following the description of each course the number of semester hours credit is indicated. For full year courses this credit must be doubled. Courses that are required are indicated and when elective the classifications and prerequisites are given. Rotating and alternating courses show the college year during which these courses are to be given. Lecture and recitation periods are fifty minutes, laboratory periods at least 110 minutes in length. A key to the abbreviations used follows:

KEY TO ABBREVIATIONS

Ag., Agriculture.	H. E., Home Economics.
Agl. Econ., Agricultural Economics.	Ind. Ed., Industrial Education.
Bus., Business Curriculum.	L. S., Literary-Scientific.
C. E., Civil Engineering.	M. E., Mechanical Engineering.
Ch., Chemistry.	Med., Medical.
Cl., Classical.	Mus. Ed., Music Education.
C. T., Commercial Teaching Option.	P. I., Plant Industry.
D. M., Dairy Manufactures.	Pr. Med., Pre-Medical.
D. P., Dairy Production.	Sec., Secretarial Option.
Ed., Education.	S. Ed., Secondary Education.
E. E., Electrical Engineering.	Sp., Special.
El. Ed., Elementary Education.	S. S., Social Science.
Eng., Engineering.	Tch. Ag., Teaching of Agriculture.
G. S., General Science.	

The College of Arts and Sciences

ART

HISTORY OF ART

1. GREEK ART. A general survey of the history of art in Greek lands from the earliest times through the Graeco-Roman period, with special emphasis on the development of sculpture and architecture. Some attention is given also to the minor arts, especially vase-painting. The purpose of the course is to help the student understand the meaning of art and to appreciate some of the masterpieces. *Two hours, first semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. THIS COURSE IS NORMALLY FOLLOWED BY HISTORY OF ART 3, BUT EITHER COURSE MAY BE TAKEN SEPARATELY.

Professor Kidder

2. A STUDY OF MODERN ART. The purpose of this course is to familiarize students with the modern and contemporary artists and to give them standards whereby they may judge the quality of any work of art. The Carnegie Collection of two thousand rare books and prints is extensively used in the course. *Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Mrs. Mills

3. EUROPEAN PAINTINGS A general survey of painting in Europe from 1400 to 1800. Attention is concentrated on the works of important painters and on the broader features of the historical background. Among other topics treated are museums and their functions, and the ways in which paintings are reproduced for study or for enjoyment in the home. *Two hours, second semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. SEE ALSO HISTORY OF ART 1.

Professor Prindle

APPLIED ART

1. APPLIED ART. A study of the principles of design as applied in the making of objects of use and beauty. Some of the processes included are stencilling, block-printing, tooled leather and batik. Studio Fee \$1.00 per semester. *Two hours credit given if taken in addition to History of Art 2 or History of Art 1 and 3.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

2. APPLIED ART. A second course in the study of the principles of color and design with instruction in the more difficult technical processes involved in their application to materials. Studio Fee \$1.00 per semester. *Two hours credit given if taken in addition to History of Art 2 or History of Art 1 and 3.* ELECTIVE TO JUNIORS AND SENIORS. Mrs. Mills

FREE-HAND DRAWING AND PAINTING

1. FREE-HAND DRAWING. Sketching from the human figure in charcoal, brush and crayon. The principles of free-hand perspective are taught through outdoor sketching in landscape compositions. Studio Fee \$1.00 per semester. *Two hours.* ELECTIVE.
2. DRAWING AND PAINTING. Advanced course in drawing and painting, requiring more difficult principles and techniques, using oils and water colors. Studio Fee \$1.00 per semester. *Two hours.* ELECTIVE. Professor Colburn

ART EDUCATION

For courses in Art Education refer to the Index.

*BOTANY

Professors Burns, Lutman, Dole, Adams and Gersboj; Dr. Marvin, Dr. Thomson and Irwin

1. PRE-MEDICAL BOTANY. A course in elementary Botany particularly adapted to the requirements of pre-medical students. Problems of evolution, heredity, structure and functions of plant organs are included. This course is followed by Zoology 1. Laboratory Fee \$2.50 per semester. *Four hours, first semester.* REQUIRED (PR. MED.) FRESHMEN. *Professor Burns, Dr. Dole, Dr. Marvin, and Irwin*
2. ELEMENTARY BOTANY. A general introductory course dealing with problems of plant adjustment to environment. Laboratory Fee \$2.50 per semester. *Four hours.* ELECTIVE TO ALL CLASSES.

Section A.	<i>Dr. Thomson</i>
Section B.	<i>Professor Dole</i>
Section C.	<i>Professor Dole</i>

* For other courses in Botany refer to the Index.

4. PLANT PHYSIOLOGY. An experimental study of the nutrition of higher plants, problems of irritability and response. Field, greenhouse and laboratory with lectures and readings. Laboratory Fee \$2.50 per semester. *Three hours*. REQUIRED (P. I.). ELECTIVE. PREREQUISITE: AN ELEMENTARY COURSE IN BOTANY.
Professor Burns
6. PLANT MORPHOLOGY. A study of plant types, representative of each of the larger phylogenetic groups. Special emphasis is placed on the evolutionary development of vegetative and reproductive structures. Adaptation of the plant to its environment, life cycles, and an introduction to the phylogenetic system of classification. Laboratory Fee \$2.50 per semester. *Three hours*. ELECTIVE. PREREQUISITE: BOTANY 2 OR 3.
Professor Dole
7. EMBRYOLOGY OF SEED PLANTS. Special emphasis is placed on morphogenesis, reproduction and heredity. A brief examination is made of the diverse types of the spermatophytes. Laboratory, field work and lectures. Laboratory Fee \$2.50. *Three hours, second semester*. ELECTIVE. PREREQUISITES: BOTANY 2 OR 3 AND 10.
Professor Gersboj
8. CYTOLOGY. This course includes the technique involved in the preparation of permanent slides for microscopic study and the detailed study of cell contents and cell processes; vegetative and reductive mitotic divisions; the development of the embryo-sac, etc. Laboratory Fee \$10.00. *Four hours, second semester*. REQUIRED (PR. MED.). PREREQUISITES: BOTANY 1 OR 2 AND ZOOLOGY 1 OR 2.
Professor Gersboj
9. ECOLOGY. A study of the physiological factors of habitats and their effect in plant structure and distribution. Field work and lectures. *Three hours, second semester*. PREREQUISITE BOTANY 2 OR 3 OR THE EQUIVALENT.
Professor Burns
10. PLANT PATHOLOGY. A course dealing with the healthy plant, conditions producing disease, insect-produced diseases, bacteria and fungi, fungicides and their action. Laboratory Fee \$2.50. *Three hours, first semester*. REQUIRED (P. I.) SENIORS. ELECTIVE TO OTHERS.
11. GENERAL MICROBIOLOGY. A study of bacteria in soil, water and air; morphology, classification and requirements. Laboratory Fee \$5.00. *Four hours, first semester*. REQUIRED (AG.) SOPHOMORES. PREREQUISITE: AN ELEMENTARY COURSE IN BOTANY.
12. GENERAL BACTERIOLOGY. A lecture and laboratory course covering the principles and technique of growing and studying bacteria.

Recommended especially to General Science and Pre-Medical students. Laboratory Fee \$5.00. *Three hours, first semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: AN ELEMENTARY COURSE IN BOTANY. *Professor Lutman*

13. HOUSEHOLD MICROBIOLOGY. A course dealing with bacteria, yeast and molds and their relation to home sanitation and to food preservation. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS. PREREQUISITE: AN ELEMENTARY COURSE IN BOTANY. *Dr. Thomson*
14. EDUCATIONAL BIOLOGY. An elementary course dealing with the anatomy, physiology and development of plants. Field trips during the fall and spring to study the native flora and habitat groups. Sample plants collected and mounted by each student. Laboratory Fee for this part of the course \$2.00 per semester. *One lecture and one laboratory supplementing Zoology 14.* OPEN TO EDUCATION STUDENTS ONLY. *Professor Adams and Dr. Marvin*
108. CURRENT LITERATURE IN BOTANY. A review of important papers and books. *One hour.* ELECTIVE TO JUNIORS AND SENIORS.
109. SPECIAL INVESTIGATION. Hours to be arranged. Laboratory Fee \$5.00 per semester. *Number of hours to be arranged.* ELECTIVE TO SENIORS BY PERMISSION. *Professors Burns and Lutman*
115. ADVANCED SYSTEMATIC BOTANY. *Three hours.* ELECTIVE BY PERMISSION. *Professor Dole*

*CHEMISTRY

Professors †Burrows, ‡Kern, Braun, Willmarth, Lineken, §Crooks; Mr. Lucarini, Miss Brown, Dr. Nichols, Dr. Newton, Mr. Hinman and Mr. Purchase

1. GENERAL CHEMISTRY. A course in Inorganic Chemistry for students presenting acceptable entrance credit. It consists of lectures, recitations and laboratory work. The laboratory work includes general experiments and elementary qualitative analysis. Laboratory Fee \$7.50 per semester. *Four hours, first semester and five hours, second semester.* ALTERNATE REQUIREMENT WITH CHEMISTRY 21 FOR (ENG., G. S. AND PR. MED.) FRESHMEN. ELECTIVE TO OTHERS.

* For other courses in Chemistry refer to the Index.

† Absent on leave 1941-1942.

‡ Deceased February 17, 1942.

§ Absent on military leave.

Five hours, both semesters. REQUIRED (CH.) FRESHMEN. PREREQUISITE: ENTRANCE CREDIT IN CHEMISTRY.

Professors Lineken, Burrows, Braun, Crooks; Mr. Lucarini, Miss Brown, Dr. Nichols, Dr. Newton and Mr. Purchase

2. QUALITATIVE ANALYSIS. This course includes laboratory and classroom work. Laboratory Fee \$2.50. *Four hours, first semester.* REQUIRED (CH.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21.
3. ELEMENTARY QUANTITATIVE ANALYSIS. An introductory course including laboratory and classroom work. Laboratory Fee \$5.00. *Four hours, second semester.* REQUIRED (CH.) SOPHOMORES, ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21.
4. ADVANCED QUANTITATIVE ANALYSIS. A course comprising lectures and laboratory instruction with class meetings for discussion of methods. Laboratory Fee \$5.00 per semester. *Three hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1 AND 3. *Dr. Newton*
5. QUANTITATIVE ANALYSIS FOR PRE-MEDICAL STUDENTS. This course, consisting of classroom and laboratory work, is adapted to students who are preparing for the study of medicine. *Three hours, first semester; repeated in the second semester.* Laboratory Fee \$5.00. REQUIRED (P. M.) JUNIORS. NOT OPEN TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21. *Professor Kern, Mr. Lucarini and Dr. Newton*
7. PHYSICAL CHEMISTRY. This course is offered to students preparing for medicine or majoring in the biological sciences. The instruction consists of lectures, recitations and demonstrations. *Three hours, first semester; repeated in the second semester.* REQUIRED (P. M.) JUNIORS, ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1 OR 21 AND PHYSICS 1. *Professors Burrows and Lineken*
8. ENGINEERING AND INDUSTRIAL CHEMISTRY. A course consisting of lectures, recitations, and occasional excursions to manufacturing establishments. *Three hours.* REQUIRED (CH.) SENIORS. ELECTIVE TO OTHERS BY SPECIAL PERMISSION. *Professor Lineken*
9. ELEMENTARY ORGANIC CHEMISTRY. A course consisting of lectures and recitations adapted to pre-medical students. *Two hours.* REQUIRED (PR. MED.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21.
10. ELEMENTARY ORGANIC CHEMISTRY. A laboratory course recommended for pre-medical preparation and correlated with Chemistry 9. Laboratory Fee \$5.00 per semester. *One hour.* REQUIRED

(PR. MED.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21. *Professor Braun; Dr. Nichols and Mr. Hinman.*

21. INTRODUCTORY GENERAL CHEMISTRY. A course in general chemistry offered for students who present no credit in entrance chemistry. The instruction includes lectures, recitations and laboratory work. Laboratory Fee \$7.50 per semester. *Four hours, first semester and five hours, second semester.* ALTERNATE REQUIREMENT WITH CHEMISTRY 1 FOR (ENG., G. S. AND PR. MED.) FRESHMEN. ELECTIVE TO OTHERS.
Professors Lineken, Burrows, Braun and Crooks; Mr. Lucarini and Mr. Purchase, Miss Brown, Dr. Nichols
22. GENERAL INORGANIC CHEMISTRY. This course includes work in lectures, recitations and laboratory. It is adapted to students enrolled in the Home Economics curriculum. Laboratory Fee \$7.50 per semester. *Five hours.* REQUIRED (H. E.) FRESHMEN. NOT OPEN TO OTHERS. *Professor Willmarth and Miss Brown*
23. GENERAL INORGANIC CHEMISTRY. This course includes instruction by lectures, recitations and laboratory. It is adapted to students enrolled in curricula in Agriculture. Laboratory Fee \$7.50 per semester. *Four hours.* REQUIRED (AG.), FRESHMEN. NOT OPEN TO OTHERS. *Mr. Lucarini and Dr. Nichols*
104. PHYSICAL CHEMISTRY. This course consists of lectures, recitations and problem work. *Three hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1 OR 21 AND PHYSICS 1 AND MATHEMATICS 2.
105. PHYSICAL CHEMISTRY. This laboratory course is recommended to students who enroll in Chemistry 104. Laboratory Fee \$2.50 per semester. *Two hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21, PHYSICS 1 AND MATHEMATICS 2. *Professors Burrows and Lineken*
106. THERMODYNAMICS. Lectures. *Two hours, second semester.* ELECTIVE. (Omitted in 1941-42.) *Professor Burrows*
111. ADVANCED ORGANIC CHEMISTRY. A lecture course with discussions of the modern theories of organic chemistry and their applications. Current journals and books on organic chemistry are used as works of reference. *Three hours.* PREREQUISITE: CHEMISTRY 9 AND 10. REQUIRED (CH.) SENIORS. ELECTIVE BY PERMISSION.
112. ADVANCED ORGANIC CHEMISTRY. An advanced laboratory course including the preparation, analysis, and general study of organic

compounds. Laboratory Fee \$10.00 per semester. *Six hours.* REQUIRED (CH.) SENIORS. ELECTIVE BY PERMISSION. *Professor Braun*

CLASSICAL LANGUAGES

Professors Prindle, Kidder and Pooley; Dr. Benedict and Miss Wolfe.

GREEK

- A. ELEMENTARY GREEK. This course is intended for those who desire a slight acquaintance with the language as well as for those who wish to continue the study of Greek. It serves as a preparation for Greek 1. *Four hours.* REQUIRED (CL.) FRESHMEN UNLESS AT LEAST TWO YEARS OF GREEK ARE PRESENTED FOR ADMISSION. ELECTIVE TO OTHERS. *Professor Pooley*
1. PLATO AND HOMER. The works usually read are Plato's *Apology* and selections from other dialogues, as well as selections from the *Iliad* and *Odyssey* of Homer. *Three hours.* REQUIRED (CL.). PREREQUISITE: GREEK A OR THE EQUIVALENT.
 2. GREEK DRAMA. The course includes the reading of three plays of Sophocles, Euripides, and Aristophanes, and lectures on the Greek theatre and on the origin, evolution, and history of Attic tragedy and comedy. *Three hours.* REQUIRED OF ALL CLASSICAL STUDENTS WHO DO NOT ELECT LATIN 2. PREREQUISITE: GREEK 1.
 3. GREEK LITERATURE IN TRANSLATION. Lectures on the development of Greek literature, its most important branches, and its chief authors (aside from the drama, for which see Greek 5). Assigned readings in standard translations from some of the more important writers. *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. NO KNOWLEDGE OF GREEK IS REQUIRED.
 5. GREEK DRAMA IN TRANSLATION. The class reads one play by each of the poets, Aeschylus, Sophocles, Euripides, and Aristophanes. The literary art of each poet and the structure and meaning of each play are discussed, with reference both to the ancient theory of dramatic art and to the influence of Greek tragedy and comedy on modern literature and drama. *One hour, second semester.* ELECTIVE TO JUNIORS AND SENIORS. NO KNOWLEDGE OF GREEK IS REQUIRED.
106. ADVANCED READING COURSE. The course normally includes selections from Plato's *Republic* and Aristotle's *Nicomachean Ethics*.

Other authors may be chosen, according to the needs and interests of the class. *Three hours*. ELECTIVE. PREREQUISITE: GREEK 2.

107. ADVANCED PROSE COMPOSITION. *One hour*. ELECTIVE BY PERMISSION.
109. ADVANCED READING COURSE. The course normally includes selections from the works of Herodotus and Thucydides, with attention to the development of historiography. Other authors may be chosen, according to the needs and interests of the class. *Three hours*. ELECTIVE. PREREQUISITE: GREEK 2. *Professor Kidder*

LATIN

1. LATIN PROSE AND POETRY. The works usually read are: Selections from Livy or Cicero; Virgil, *Eclogues*; Plautus or Terence, one play. *Three hours*. REQUIRED (CL., L. S.). ELECTIVE TO OTHERS WHO HAVE PRESENTED FOUR YEARS OF LATIN FOR ENTRANCE OR HAVE COMPLETED LATIN B.
2. HORACE, CATULLUS, AND PLINY. The works usually read are: Horace, *Odes* and *Epodes*; selections from the poems of Catullus and the letters of Pliny. *Three hours*. ELECTIVE. PREREQUISITE: LATIN 1.
- *11. CLASSICAL MYTHOLOGY. The course treats the more important ancient myths and their influence on English literature and on art. The work consists of lectures, assigned readings, short papers, and recitations. *Two hours*. ELECTIVE TO SOPHOMORES, JUNIORS, AND SENIORS WHO HAVE SOME CLASSICAL BACKGROUND. (Offered in alternate years, 1942-1943.) *Professor Prindle*
- *14. THE TEACHING OF LATIN. The course is conducted by means of lectures, discussions, outside readings, and papers. Among the subjects discussed are the place of Latin in the curriculum, the aims of Latin teachings, ways of studying vocabulary, syntax, and derivatives, and the selection and use of textbooks and illustrative material. *Three hours, second semester*. REQUIRED OF ALL STUDENTS WHO WISH TO BE RECOMMENDED TO TEACH LATIN. ELECTIVE TO SENIORS. PREREQUISITE: LATIN 2. *Professor Kidder*
- *16. THE LATIN AND GREEK ELEMENTS IN THE ENGLISH VOCABULARY. Among the topics treated are dictionaries and their use, the Indo-European family of languages, a sketch of the history of the English language, word formation, the ways in which Latin and Greek words have come into English, and the respective places of the Classical and Anglo-Saxon elements in the English vocabulary.

- Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS, AND SENIORS. SOME KNOWLEDGE OF LATIN IS REQUIRED. (Offered in alternate years, 1943-1944.) *Professor Prindle*
- †104. TACITUS. A reading of selections and a study of Tacitus as an historian and as a literary artist. *Three hours, first semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1943-1944.)
105. CICERO. Selections from the *Orations*, the *Letters*, and the philosophical works are studied in detail. Attention is given to the position of Cicero in the political and literary history of his age. *Three hours, second semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1942-1943.) *Professor Pooley*
106. VIRGIL. The whole of the *Aeneid* is read in the original or in translation. The poem is considered with reference to its structure, its literary qualities, and its position in the literature of Rome and of the world. *Three hours, second semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1943-1944.) *Professor Prindle*
- †107. ROMAN ELEGY. Reading of selections from Tibullus, Ovid, and Propertius and consideration of the development of the elegy. *Three hours, first semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1943-1944.) *Professor Kidder*
109. PROSE COMPOSITION. Advanced course. *Two hours, first semester.* REQUIRED OF ALL STUDENTS WHO WISH TO BE RECOMMENDED TO TEACH LATIN. ELECTIVE TO OTHERS. PREREQUISITE: LATIN 2. *Professor Pooley*
112. OVID. Selections from the *Metamorphoses* are studied in detail. Rapid reading from other works of Ovid. *Three hours, first semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1942-1943.) *Professor Prindle*

PREPARATORY COURSES IN LATIN

LATIN A. Preparatory Latin recognized as equivalent to two units of entrance credit. *Three hours.* *Dr. Benedict*

* Either Latin 11, Latin 14, or Latin 16 may be counted toward a major in Latin if one advanced reading course is also taken. Either Latin 11 or Latin 16 may be counted toward a major in English or in Greek. Latin 14 may be counted as a half-course in Education if taken in conjunction with Education 1, 5, 7, and 8.

† Either 104 or 107 will be given in 1943-1944, in accordance with the preference of the students.

LATIN B. Preparatory Latin recognized as equivalent to the second two units of entrance credit. *Three hours.* *Dr. Benedict*

Enrollment in these two courses is governed by the following regulations: Students who present no Latin for entrance may receive six hours of credit toward the Bachelor's degree for each of the two preparatory courses upon completion of Latin 1. Similarly, upon completion of Latin 1, students who present two years of Latin for entrance may receive six hours of credit for Latin B, and those who present three years of Latin for entrance, three hours of credit. Either course may be taken by those who desire additional preparation, but college credit will not be given if the equivalent in entrance credit has already been allowed. Latin A and Latin B do not count toward a major or minor in Latin. Students in the Social Science curriculum who do not present two years of Latin for entrance must remove the condition by completing Latin A, without credit toward the degree.

ECONOMICS

*Professors Groat, Briggs, Woodard, Willis, Nulty and Davis;
Miss Morgan, Mr. Haller and Mr. Lent.*

1. ELEMENTARY ECONOMICS. An introductory course covering the elements of the subject. *Three hours.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
Mr. Lent and Mr. Haller
3. PUBLIC FINANCE AND TAXATION. An introduction to the principles and problems of government spending, borrowing, and taxation. Special attention will be given to the particular methods and problems of taxation and the economic effects of government financing. *Three hours, first semester.* REQUIRED (BUS.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS.
Mr. Lent
4. MARKETING AND ADVERTISING. The marketing, wholesale and retail, of the products of agriculture and manufacture is described, with a discussion of the processes of buying, selling, speculation, and other marketing activities. Particular attention will be given, during the latter part of the course, to advertising and selling and the promotion and protection of the welfare of consumers. *Three hours.* REQUIRED (BUS.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS.
Mr. Haller
6. ECONOMIC HISTORY OF ENGLAND. An outline of the development of English agriculture, commerce, industry and finance. *Three*

Courses of Instruction

hours, first semester. REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

7. ECONOMIC HISTORY OF THE UNITED STATES. An outline of the development of agriculture, manufactures, transportation, commerce and finance, with special emphasis on the period of national development. *Three hours, second semester.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Woodard

8. STATISTICS. An introductory course in the basic methods of statistical computation and the principles of statistical interpretation. *Three hours, first semester. This course is repeated in the second semester.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Willis

9. ECONOMIC GEOGRAPHY. A course presenting the facts of geography as a basis for business development. *Three hours.* REQUIRED (BUS.) FRESHMEN. ELECTIVE BY SPECIAL PERMISSION.

Professor Woodard and Miss Morgan

12. ACCOUNTING. An elementary course emphasizing the principles of accounting, with such practical work as is necessary to illustrate them. *Three hours.* REQUIRED (BUS.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS.

16. BUSINESS ADMINISTRATION. A course to develop a comprehensive knowledge of the main forms of business structure on the technical and administrative side and the adaptation of these to different kinds of business activity. *Three hours, second semester.* REQUIRED (BUS.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS. *Mr. Lent*

20. BUSINESS LAW. The general principles of business law as shown in cases arising out of typical business relations. *Three hours, first semester. This course is repeated in the second semester.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Briggs

102. MONEY AND BANKING. An analysis of the various types of currency and the application of banking principles to foreign and domestic business. *Three hours.* REQUIRED (BUS., SEC.), JUNIORS; (C. T.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS.

Professor Willis

105. CORPORATION FINANCE AND INVESTMENTS. A comparison of the various types of business enterprise and elaboration of the principles of financing large-scale industry followed by instruction in the methods of analyzing investments and of determining investment

*Seems to me
appears as
5*

policies. *Three hours.* REQUIRED (BUS.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS. *Professor Willis*

110. SOCIAL ECONOMICS AND CONSUMPTION. A study of modern industry with reference to its effect upon social welfare. It will consider the national income and its distribution, standards of living, family budgets, and cooperation, as these affect social well-being. In relation to these topics the course will consider population changes, recent technological achievements, and the consumer cooperative movement. *Three hours.* REQUIRED (BUS.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS.

111. LABOR PROBLEMS AND PERSONNEL MANAGEMENT. A study of the principles involved in the employer-employee relation including, labor's attitudes and policies, organization of laborers and their activities, employers' attitudes and policies, employers' organizations, development of personnel policies and of cooperation between employers and workers. *Three hours.* REQUIRED (BUS.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS.

Professor Groat and Miss Morgan

113. ADVANCED ACCOUNTING. The principles and practice of advanced accounting. *Three hours.* ELECTIVE TO SENIORS. PREREQUISITE: ECONOMICS 12. *Professor Briggs*

114. ADVANCED ECONOMICS. An advanced course in economic theory, emphasizing especially the relationship between the development of economic doctrines and industrial changes. *Three hours.* REQUIRED (BUS.) SENIORS. ELECTIVE TO SENIORS. PREREQUISITE: ECONOMICS 1. *Professor Groat*

115. SEMINAR IN ECONOMICS. An advanced course open to those who have shown ability to undertake independent investigation. *Three hours.* ELECTIVE TO SENIORS BY PERMISSION. PREREQUISITE: A SATISFACTORY MAJOR IN ECONOMICS. *Professor Groat*

ECONOMICS (*Secretarial*)

Professors Nulty and Davis

52. ELEMENTARY SHORTHAND. Instruction in the fundamental principles of Gregg Shorthand. Dictation of business letters. *Five hours.* REQUIRED JUNIORS (SEC. AND C. T.). Not open to others.
53. ADVANCED SHORTHAND. Dictation covering a broad business vocabulary, and a variety of literary and technical subject-matter. Emphasis on speed in taking shorthand and in transcribing. *Five*

Seniors appears

- hours.* REQUIRED (SEC. AND C. T.) SENIORS. Not open to others.
Professor Nulty
56. ELEMENTARY TYPEWRITING. Instruction in the care of the typewriter; correct technique; mastery of the keyboard; practice in variety of forms of material. *Five hours.* REQUIRED (SEC. AND C. T.) JUNIORS. Not open to others.
57. ADVANCED TYPEWRITING. Development of typing speed. Projects covering the different kinds of commercial typing. Transcription of shorthand notes. *Five hours.* REQUIRED (SEC. AND C. T.) SENIORS. Not open to others.
Professors Nulty and Davis
58. BUSINESS CORRESPONDENCE. Construction of business messages, including routine and sales letters; correspondence supervision; preparation of oral and written reports. *Three hours.* REQUIRED (SEC. AND C. T.) SOPHOMORES. Not open to others.
59. FILING. Methods of indexing and filing; organization and management of the filing department; the business library, cataloging, classification, and reference works. *Three hours, first semester.* REQUIRED (SEC.) FRESHMEN. Not open to others.
60. BUSINESS ORGANIZATION AND MANAGEMENT. Organization and administrative policy; supervision and management of modern business units. *Three hours, second semester.* REQUIRED (SEC.) FRESHMEN. Not open to others.
61. SECRETARIAL METHODS. A study of the various tasks performed in the ordinary office; a study of the duties of a secretary. *Three hours, second semester.* REQUIRED (SEC. AND C. T.) SENIORS. Not open to others.
62. OFFICE MANAGEMENT. A study of organization and management as applied to office functions. *Three hours, first semester.* REQUIRED (SEC. AND C. T.) SENIORS. Not open to others.
Professor Davis
63. PRINCIPLES AND METHODS IN COMMERCIAL EDUCATION. Problems of organizing commercial courses on a vocational basis in secondary schools. Discussion of the content and the aims of the various commercial subjects and of the principles underlying their most effective presentation. Practice teaching. Practice Fee \$10.00 for the second semester. *Three hours.* REQUIRED (C. T.) SENIORS. Not open to others.
Professor Nulty

EDUCATION

Professors Douglass, Holbrook, Colburn, Nelle Adams, Pearl, Eleanor Cummings, W. R. Adams, Rowell, Martin, Trafton; Miss Marston, Mrs. Mills, Miss Sullivan, Miss Parker, Dr. Marvin, Miss LeBaron, Mr. Pappoutsakis, Miss Perrin, Mr. Park, Mrs. Morrill, and Miss Brown.

*SECONDARY EDUCATION

1. PRINCIPLES OF EDUCATION. A study of the aims and principles underlying the educative process. The organization of the public school system and the principles which determine the selection and treatment of subject-matter in the classroom will be considered. *Three hours, first semester.* REQUIRED (S. ED., EL. ED. MUS. ED., TCH. AG., H. E., C. T.) JUNIORS. ELECTIVE TO OTHER JUNIORS AND SENIORS. *Professors Holbrook, Nelle Adams; Mrs. Morrill*
2. HISTORY OF EDUCATION. An interpretation of modern education in the light of historical development. The course includes a study of the gradual development of education from the primitive to the present complex and highly organized form. The influences of the most significant historical movements upon present educational theory and practice will be studied. *Three hours, first semester.* REQUIRED (S. ED.) JUNIORS OR SENIORS. ELECTIVE TO OTHER JUNIORS AND SENIORS. *Professor Douglass*
3. EDUCATIONAL PSYCHOLOGY. The application of psychological principles and findings to the work of the school. Topics such as the following are considered: inherited and environmental characteristics as bases and factors in learning; the nature and measurement of intelligence; principles and types of learning; the influence of emotions upon learning; transfer and mental development as goals of learning; measurement of pupil achievement. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Douglass*

* Students who are preparing to teach in secondary schools are referred to the following specialized courses which are offered in other departments: Agricultural Education 2, 3, 4, 5, 10 (Teaching and Methods); Economics 63 (Methods in Commercial Education); English 116 (Advanced Composition); French 108 (Conversation and Composition); German 108 (Composition and Conversation); Greek 107 (Advanced Prose Composition); Home Economics 16 (Teaching Methods); Latin 9, 14 (Composition and Methods); Mathematics 14 (Teaching Mathematics); Music 10 (Music Methods); Spanish 104 (Conversation and Composition). For the curriculum in Secondary Education refer to the Index.

4. **PSYCHOLOGY OF ADOLESCENCE.** A study of the growth of youth from the close of childhood to the threshold of adulthood. Consideration is centered primarily upon normal boys and girls as they develop physically, emotionally, socially, morally, and intellectually in home, school and community. Attention is given also to those who in various ways are abnormal. The point of view of the class is that of the secondary school teacher. *Three hours, second semester.* REQUIRED (C. T.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Holbrook*
5. **PHILOSOPHY OF EDUCATION.** A development of a body of educational theory based upon psychological principles and upon present day social needs. The relationships of education to social welfare and the demands made upon education by a modern democratic society are given intensive study. *Three hours, second semester.* REQUIRED (S. ED., EL. ED., MUS. ED.) JUNIORS OF SENIORS. ELECTIVE TO OTHERS WHO HAVE SUCCESSFULLY COMPLETED ONE COURSE IN EDUCATION. *Professor Douglass and Mrs. Morrill*
6. **HIGH SCHOOL ADMINISTRATION.** A study of the organization of the secondary school; the re-direction of the curriculum; the supervision of instruction; the relationship of the principal to the community, the school board, the superintendent of schools, teachers and pupils; the construction of daily programs; pupil guidance; high school costs; extracurricular activities. This course is recommended to those preparing for administrative positions in the educational field. *Three hours, second semester.* REQUIRED (S. ED.) SENIORS. ELECTIVE TO OTHER JUNIORS AND SENIORS. *Professor Douglass*
7. **PRINCIPLES AND MODERN PROCEDURES IN SECONDARY EDUCATION.** The course deals principally with general methods of secondary school instruction and special methods in the student's proposed major teaching field; and covers also such topics as introduction of the prospective teacher to the characteristics and needs of secondary school pupils, problems of classroom management and control, and pupil diagnosis and guidance. The special methods phase of the course, which is continued into Education 8, is developed individually by each student through directed reading and study through group and individual conferences with the instructor and the training teacher. *Three hours, first semester.* ELECTIVE TO SENIORS. PREREQUISITE: A SATISFACTORY GRADE IN EDUCATION 1 WITH STATEMENT OF INTENTION TO TEACH.

8. STUDENT TEACHING IN SECONDARY SCHOOLS. Each student is assigned to a class in a junior or senior high school in or near Burlington, which, after a period of observation, he teaches during the semester. His teaching is observed and criticized by his training teacher, the course instructor, and the school principal. The class meets weekly for general conference, in addition to which students are called to or may request individual conferences with those who observe their work. The study of special methods, begun in Education 7, is continued in Education 8. Practice fee \$10.00. *Three hours, second semester. Enrollment is limited.* PREREQUISITES: SATISFACTORY CREDIT IN EDUCATION 1 AND EDUCATION 7 AND THE APPROVAL OF THE ENROLLMENT BY THE DEPARTMENT OF EDUCATION AND THE DEPARTMENT IN WHICH THE TEACHING MAJOR IS TAKEN.
Professor Pearl
9. INTRODUCTORY COURSE IN EDUCATIONAL MEASUREMENTS. An introductory survey of tests of intelligence, performance, achievement, personality and special abilities, with study of their development and use as an aid to the improvement of instruction. Laboratory Fee \$2.00. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
10. ADVANCED COURSES IN EDUCATIONAL MEASUREMENTS. An intensive study of a limited number of group and individual tests of intelligence, achievement and performance with special emphasis on practical application to individual children. Practice in the administration of tests is included. Laboratory fee \$2.00. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Holbrook and Miss Parker
11. SCHOOL ADMINISTRATION. A study of State and county school administration, supervision of instruction, making of courses of study, use of tests and measurements, use of statistical methods, business methods, selection of teachers. The course is conducted as a research seminar, with lectures and discussions. This course is recommended as a preparation for the position of school principal or superintendent of schools. *Three hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
13. SCHOOL AND CLASS MANAGEMENT. A study of the principles underlying intelligent management in the modern school. Specific problems in school and class management will be studied to clarify the principles involved. Parts of the school law of Vermont will be used to show the relation of teachers, pupils and parents to various legal requirements. Lectures, discussion, readings. This course is

- identical with Elementary Education 347. *Three hours, first semester.* REQUIRED (EL. ED.). ELECTIVE TO OTHERS. *Miss Perrin*
112. SEMINAR. Problems in present-day education will be proposed for individual and group investigation. Each student will present a report upon some problem to be chosen in conference with the instructor. The discovery of a problem, methods of investigation, the making of a bibliography and standards for the presentation of material will be studied. *Three hours.* ELECTIVE, BY PERMISSION, TO SENIORS IN EDUCATION AND GRADUATE STUDENTS IN EDUCATION. *Professor Douglass and the Departmental Professors*

* ELEMENTARY EDUCATION

Professors Douglass, Nelle Adams, Colburn, Holbrook, Eleanor Cummings, W. R. Adams, Rowell, Martin; Miss Marston, Miss Sullivan, Mrs. Mills, Miss Parker, Miss LeBaron, Dr. Marvin, Mr. Pappoutsakis, Miss Perrin, Mr. Park, Miss Madigan and Miss Brown.

321. INTRODUCTION TO EDUCATION. A study of the elements of psychology as applied to the learning process and child development; an initial, comprehensive preview of the whole program of education, including observation in the nursery school and various types of elementary schools. Desirable social and professional relationships are emphasized. *Three hours.* REQUIRED (EL. ED.) FRESHMEN. *Professor Nelle Adams*
322. READING IN THE ELEMENTARY SCHOOL. This course includes a study of principles underlying the teaching of reading. Reading readiness, remedial reading, phonetics, and the cultivation of correct study habits are stressed. The use of standard tests for purposes of diagnosis and improvement in reading are considered. Demonstration, illustration, practice and theory, are combined. *Two hours, second semester.* Required (EL. ED.). *Professor Nelle Adams*
323. LITERATURE FOR THE ELEMENTARY SCHOOL. This course is planned to acquaint students with the wide field of literature suitable for children in the elementary school; to aid them in directing children's reading and to help in evaluating it in relation to the needs and interests of children. It will include a discussion of the history of children's books; a brief résumé of the body of traditional literature as well as an acquaintanceship with more recent literature for children;

* For the curriculum in Elementary Education refer to the Index.

types suitable for various age levels; poetry—both old and new; present-day illustrators and story telling as a factor in appreciation of good literature. *One hour.* REQUIRED (EL. ED.) SOPHOMORES OR JUNIORS.
Miss Sullivan

324. PROBLEMS OF TEACHING ENGLISH IN THE ELEMENTARY GRADES. A study of the principles, types of subject-matter and methods in the teaching of English, including spelling, cursive and manuscript writing, in the elementary school. The purpose of the course is to provide for vitalizing the oral and written composition work and for integrating it with the other subjects of the curriculum. Some of the common speech problems and their solutions will be considered. Attention will be given to a study of achievement tests in English. *Two hours.* REQUIRED (EL. ED.) FRESHMEN OR SOPHOMORES.
Miss Sullivan
325. THE TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL. This course includes a study of the subject-matter and modern methods of presentation. Emphasis is placed upon practical economic and social uses of advanced arithmetic and use of standard tests. During the first semester of the first year a remedial course in arithmetic is required of all students who fail to attain the necessary standard as determined by an objective test. *Two hours.* REQUIRED (EL. ED.).
Professor Nelle Adams
328. HYGIENE. This course is intended to give the prospective teacher a thorough knowledge of personal and social hygiene. The structure of the human body and the functions of the various organs are studied, as well as the principles of personal and social hygiene and sanitation. First Aid is included as an important part of the course. Movements for the advancement of hygienic living receive careful consideration. This course is closely correlated with Education 334 (Physical Education). *Two hours.* REQUIRED (EL. ED.) FRESHMEN.
Professor Eleanor Cummings
329. ENGLISH AND LITERATURE. (See English 1 and 2.)
Miss Sullivan
330. PENMANSHIP. This course includes practice under supervision for all who have not attained the required degree of proficiency in handwriting. Several methods in common use are studied. The psychology of penmanship is considered. The use of scales in evaluating penmanship and instruction in methods of teaching are given attention. Blackboard writing is included. *One hour.* REQUIRED (EL. ED.) FRESHMEN.
Miss Madigan

331. THE TEACHING OF SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL. A study of subject matter, procedures and techniques applicable to the teaching of the social studies, including geography and history and elementary science, and their integration with other subjects of the elementary school. *Two semester hours*. REQUIRED (EL. ED.) STUDENTS WHO DO NOT ENROLL IN EDUCATION 332 AND 333. *Miss Perrin*
332. THE ELEMENTARY SCHOOL CURRICULUM AND PROCEDURE. This course includes a study of recent contributions to knowledge regarding elementary school subject-matter and procedures which have been gained from research and scientific investigations. The materials which should be included in each grade, their psychological arrangement and presentation are considered. Observation, participation and student teaching in graded and one-room schools are included. Practice Fee \$2.00. *Six semester hours, first semester*. REQUIRED (EL. ED.). ALTERNATE REQUIREMENT WITH EDUCATION 331 FOR EL. ED.
333. STUDENT TEACHING IN ELEMENTARY SCHOOLS. Observation and teaching under supervision in elementary schools of Burlington and in the vicinity. Conferences, reports, thesis. Open to students who have met satisfactorily other academic and professional requirements demanded of elementary teachers, including acceptable use of oral and written English. This course is definitely integrated with Education 332. Experienced teachers who show a high degree of competence during their first period of student teaching may be permitted to substitute seminar work in Elementary Education for a part of this course. Practice Fee \$2.00. *Six hours, second semester*. REQUIRED (EL. ED.). PREREQUISITE: EDUCATION 332. *Professors Douglass, Nelle Adams and Colburn; Misses Sullivan, Perrin, and Mr. Pappoutsakis*
334. PHYSICAL EDUCATION. This course includes instruction in personal hygiene, in fundamental skills, in team and individual sports, and in training in rhythmic activities.
- During the Sophomore and Junior years, games and rhythmic, especially adapted to children, are introduced, and Child Health Education material is presented. The Senior year is devoted to techniques of teaching Physical Education activities and Health Education. Practice work is done in the Burlington schools.
- Throughout the course a high ideal for the individual health and personality development of the teacher herself is stressed. *Two*

hours. REQUIRED (EL. ED.) FRESHMAN AND SOPHOMORE WOMEN.

One hour. REQUIRED (EL. ED.) JUNIOR AND SENIOR WOMEN.

Professor Eleanor S. Cummings

335. SCHOOL MUSIC 1. Ear training, music reading and writing, elementary theory, rhythmic and melodic dictation. Tonal notation and relations: diatonic scales, intervals, chromatic alterations, triads, tonality, modality, signatures. Rhythmic notation: measure, principal combinations and divisions of simple and compound measure, both normal and abnormal. Applied solfeggio. *Three hours.* REQUIRED (EL. ED.) *Mr. Pappoutsakis*
336. SCHOOL MUSIC 2. A study of the objectives of elementary school music, analysis of basic principles of accepted practice, survey of present tendencies. Emphasis is placed on effective classroom procedure, the care and culture of the child's voice, rote singing, the teaching of reading and theory; the development of part singing and appreciation, the selection of material, the evaluation of tests and measurements. *Three hours.* PREREQUISITE: EL. ED. 335 OR MUSIC 8. REQUIRED (EL. ED.). *Mr. Pappoutsakis*
337. ART EDUCATION 1. The theory and practice of art and the development of skill and judgment through drawing, painting, lettering and handwork. Special emphasis is given to art appreciation. Studio Fee \$1.00 per semester. *Two double periods.* REQUIRED (EL. ED.).
338. ART EDUCATION 2. A study of the principles of color and design as applied in various art crafts, such as stencilling, block printing, bookbinding, color printing, batik, tooled leather and gesso. The aim is to develop in prospective teachers standards of good taste by which they may influence the personal and civic ideals of the communities in which they work. Studio Fee \$1.00 per semester. *Two double periods.* ELECTIVE (EL. ED.).
Professor Colburn and Mrs. Mills
339. OBSERVATION AND STUDENT TEACHING. The development of teaching skills and the application of the principles involved in effective teaching. The course is closely correlated with the other courses in Elementary Education by classroom demonstration and discussions. Observation of demonstration lessons is followed by conferences in which the underlying principles of the observed instruction are discussed. This leads to participation in instruction and finally to full responsibility for the teaching and control of the school. Observation and Practice Fee \$2.00 per semester. *Two hours of Observation and Conference.* REQUIRED (EL. ED.) FRESH-

- MEN, SOPHOMORES OR JUNIORS. *Six hours, including Student Teaching.* REQUIRED (EL. ED.) SOPHOMORES, JUNIORS OR SENIORS WHO HAVE NOT ENROLLED IN EDUCATION 332 AND 333. *Miss Perrin*
340. MENTAL HYGIENE ARTS AND CRAFTS. This course is divided into two interdependent parts. The first is the study of the principles of mental hygiene of the school child and the teacher.
The second part is a study of various arts and crafts, especially as a motivating force for academic subjects. Both parts work together for the successful adjustment of the child in school. The crafts instruction will include weaving, brush making, metal work, clay, puppetry and woodworking. Studio Fee \$1.00 per semester. *Three hours.* (EL. ED.). ALTERNATE REQUIREMENT WITH ELEMENTARY EDUCATION 337. *Professor Holbrook and Miss Parker*
341. THE TEACHING OF ART. Art principles and processes as integrated with present educational practice will be discussed, demonstrated and observed in this course. Through presentation of the principles of creative expression, with the unit technique of developing art appreciation, students are trained to recognize and meet the art needs of varying situations. *Two hours, first semester.* REQUIRED (EL. ED.) SENIORS. *Professor Colburn*
344. RURAL EDUCATION AND SOCIOLOGY. A study of the social forces which are influencing modern American life, the best of the local environment in promoting the development of pupils, the place of elementary science in rural and graded schools, the elements of Home Economics essential for the elementary teacher. *Three hours.* REQUIRED (EL. ED.) SOPHOMORES, JUNIORS OR SENIORS. *Professor Martin, Miss LeBaron, and Miss Brown*
345. ELEMENTARY SCHOOL MUSIC METHODS AND PRACTICE TEACHING. The teaching of music in the primary and grammar grades. The topics include classroom management, definite lesson plans for each grade, discussion of the various methods in use, the psychology of school music teaching, tests and measurements in music education, observation of the music in the grades in the Burlington school system and teaching of children under supervision. *Three hours.* REQUIRED (MUS. ED.) JUNIORS. ELECTIVE (EL. ED.) JUNIORS AND SENIORS. PREREQUISITES: CREDIT OR SIMULTANEOUS ENROLLMENT IN MUSIC 1 AND 8. *Miss Marston*
346. EDUCATIONAL BIOLOGY. (See Botany 14 and Zoology 14.) *Four hours.* *Professors W. R. Adams, Rowell and Dr. Marvin*
347. SCHOOL AND CLASS MANAGEMENT. (See Education 13.)

348. ADVANCED COURSE IN TEACHING PROCEDURES. In this course particular consideration is given to the teaching of Reading and Arithmetic. *Two hours.* REQUIRED (EL. ED.) UNLESS EDUCATION 332 AND 333 ARE TAKEN. *Professor Nelle Adams*

*INDUSTRIAL EDUCATION

Professor Trafton.

1. PRINCIPLES OF VOCATIONAL EDUCATION. A study of the history, principles and problems, including early apprenticeship system, state and federal legislation and aid, and modern trends in industrial training. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
2. METHODS OF TRADE TEACHING. This course presents the relation of Vocational Education and Industrial Arts and methods of teaching industrial shop and related subjects. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
3. METHODS OF TRADE TEACHING (ADVANCED). A continuation of the work of Industrial Education 2, emphasizing technique and offering practice in the application of methods of teaching industrial subjects. *One hour, second semester.* REQUIRED (IND. ED.) SENIORS.
4. TRADE ANALYSIS. An analytical study of trade practice as a basis of course planning. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
5. TRADE ANALYSIS (ADVANCED). A continuation of the course in Industrial Education 4 presenting the organization of trade content, discovered by analysis, into useful outlines of instruction. *One hour, second semester.* REQUIRED (IND. ED.) SENIORS.
6. PREPARATION OF INSTRUCTIONAL MATERIALS. A survey of organized instructional material and a study of the principles and methods involved. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
7. PREPARATION OF INSTRUCTIONAL MATERIALS (ADVANCED). A continuation of Industrial Education 6 with emphasis on practice in preparing materials. *One hour, second semester.* REQUIRED (IND. ED.) SENIORS.
8. TEACHING INDUSTRIAL ARTS. A study of the organization and management of the general shop or laboratory of industries. *Four hours.* REQUIRED (IND. ED.) SENIORS.
9. OBSERVATION AND DIRECTED TEACHING. This course includes observation and conference discussions, followed by supervised prac-

* For the curriculum in Industrial Education refer to the Index.

tice in teaching of trade and industrial classes in the public schools of Burlington and vicinity. *Three hours, second semester.* REQUIRED (IND. ED.) SENIORS.

10. SPECIAL PROBLEMS. A study and investigation of problems of special interest to the student. Formal preparation of results in thesis form required. *Two or three hours.* ELECTIVE (IND. ED.) SENIORS.

*ENGLISH

Professors Tupper, Aiken, Lindsay, Dean, Hall, Wainwright, Carleton, Pope; Mr. Powers, Miss Sullivan, Mr. Merrick.

1. RHETORIC AND COMPOSITION. An elementary course, including criticism of the common errors of speech; study of words, sentences and paragraph construction; theme writing and study of selected literature as illustrative of the principles discussed. *Two hours.* REQUIRED OF ALL FRESHMEN.

Professors Aiken, Dean, Hall, Wainwright, Carleton and Pope; Miss Sullivan, Mr. Merrick

2. HISTORY OF ENGLISH LITERATURE. An outline study of the History of English Literature from its beginning through the Victorian Period. There are required readings and reports on the more important works. This course is normally considered a prerequisite to advanced courses in English literature. *Two hours.* REQUIRED (ARTS, AG.) SOPHOMORES. FOR SOPHOMORE (ENG.) THIS COURSE IS GIVEN AS COMPOSITION NOT LITERATURE.

Professors Aiken, Lindsay, Dean, Hall, Wainwright, Carleton and Pope; Miss Sullivan, Mr. Merrick

3. ENGLISH LITERATURE FROM 1700 TO 1900. Lectures and seminars upon the poets and important literary movements from the Restoration through the Victorian age. The course includes a series of lectures upon the history and principles of English versification. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.)

Professor Tupper

6. SHAKSPERE AND HIS CONTEMPORARIES. A study of Elizabethan drama by lectures and collateral reading with literary study and

* A major in this department must include credit for English 1, English 2, and English 26. In addition, courses aggregating at least 16 semester hours will be required. Not more than one course in advanced composition may be counted. Four semester hours of credit in Latin 11 or Latin 16 may be counted toward the 16 elective hours.

textual interpretation of selected plays of Shakspeare. *Three hours.*
ELECTIVE TO JUNIORS AND SENIORS.

(1941-1942) *Professor Tupper*

(1942-1943) *Professor Pope*

7. AMERICAN LITERATURE. A general survey of American prose and poetry from the Colonial period to the present time with lectures, reports and collateral reading. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Lindsay*
8. ARGUMENTATION. An outline study of the elements of Argumentation with class discussions and practice in brief writing. *One hour.* ELECTIVE. *Mr. Powers*
9. THE ENGLISH NOVEL. A critical study of masterpieces of English fiction to the nineteenth century. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.) *Professor Tupper*
10. THE NINETEENTH CENTURY NOVEL. A critical study of selected novels of the nineteenth century. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.) *Professor Tupper*
11. POETRY OF THE ENGLISH RENAISSANCE. Lectures and textual study of selected passages from the more important works of Spenser, Milton and their contemporaries. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.) *Professor Aiken*
12. A HISTORY OF THE ENGLISH ESSAY. The beginning and development of the English essay to the present day, with a study of leading essayists. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.) *Professor Aiken*
13. FORMS OF PRESENT-DAY LITERATURE. A study of English poetry and novel, with particular reference to contemporary movements and writers. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. *Professors Aiken and Carleton*
14. MODERN DRAMA. The origin and development of American drama with a study of leading European dramatists. The course includes readings of representative plays, the new art of drama and the theatre. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.) *Professor Tupper*
15. JOURNALISM. A study of the principles and practices of news writing, with daily assignments and discussions that cover different phases of reportorial and editorial work and the various types of

- special writing such as department material, correspondence, interviews, feature stories and broadcasts. *Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
118. MAGAZINE WRITING. A laboratory course in writing that includes short stories and articles, and such other forms of magazine literature as book reviews, editorials, interviews, reports, departments and features, with classroom discussion, readings, criticism, and study of technical methods. *Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS, AND SENIORS.
19. INTRODUCTION TO POETICS. An elementary study of the general problems of aesthetics as related to poetry, the forms and characteristics of poetry. Special attention is given to the lyric. *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
Professor Lindsay
20. WORDSWORTH AND COLERIDGE. A study of the life, character and work of William Wordsworth and of Samuel Taylor Coleridge. General class discussion of assigned reading and individual study of selected topics, the results of which are presented before the class. This course may be supplemented by English 30. *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.)
Professor Lindsay
21. BIOGRAPHY AS A TYPE OF LITERATURE. The growth of biography as a literary type will be studied; some of the significant writers in this field will be considered, with especial emphasis on present-day English and American biographers. There will be lectures on theory and practice with conferences on problems assigned to the class. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Hall
22. VICTORIAN LITERATURE (1832-1900). A study of the lives and the works (except the novel) of the significant writers of the era by lectures, discussions, and reports. Each semester outstanding poets and prose writers are studied as spokesmen of their own age and harbingers of the present one. *Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
Professor Wainwright
23. BIBLICAL LITERATURE. An introduction to the literature of the Bible. A consideration of the value and appeal of the Book as an English classic, preceded by a brief review of its historical development. Lectures, reports, class readings. *Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS, AND SENIORS.
Professor Hall
24. SCANDINAVIAN LITERATURE IN TRANSLATION. The Old Norse civilization and literature including the Elder Edda and the Sagas fol-

lowed by a study of the principal Scandinavian authors of the nineteenth and twentieth centuries. Lectures on those periods not covered by adequate translation. Students will be assigned definite problems for research. (This course is not to be included as a part of any required major.) *Two hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Carleton*

25. HISTORY AND PRINCIPLES OF CRITICISM. A comparative study of the more important critical writings, past and present, considered as contributions to the theory of literature and as aids to interpretation of literary works. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.)
Professor Lindsay
26. JUNIOR READING. Reports or tests on reading from a list of books selected by the Department. REQUIRED JUNIORS MAJORING IN ENGLISH.
Professor Aiken
28. AMERICAN LITERATURE FROM 1865 TO 1914. A study of the rise of realism and the growth of regionalism. Lectures, group reports, and subjects assigned for special investigation. *Two hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Carleton*
30. BYRON, SHELLEY AND KEATS. The lives, characters, and works of Byron, Shelley and Keats. Lectures and general class discussion of assigned reading in their poems and letters, collateral reading in the subject and individual reports on selected topics. This course is supplementary to English 20. *Two hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.)
Professor Pope
104. ANGLO SAXON. Training in early linguistic forms and in the development of English. The course includes a literary study of Anglo-Saxon prose and poetry. Text, Smith, *Old English Grammar.* *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.)
105. CHAUCER. A continuation of English 104 with further training in linguistic development. The course includes a study of Chaucer's poetry and collateral readings in the work of his contemporaries. *Two hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: ENGLISH 104. (Offered in alternate years, 1942-1943.)
Professor Tupper
106. TYPES OF MEDIEVAL LITERATURE. An introduction to the study of literary forms, including history, legend, romance, allegory, lyric, and the drama in the Middle English period. *Two hours, first*

semester. ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.)
Professor Tupper

116. ADVANCED COMPOSITION. This course is recommended to those who wish to teach English, and for others who wish practice in writing. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Lindsay

*FORESTRY

Professor Adams

1. CONSERVATION OF NATURAL RESOURCES. The conservation of the natural resources of the United States. The contribution of soil, forests, minerals, and water to the economic and social development of the country. Application of the conservation philosophy on human life and American civilization. Textbook and lectures. *Two hours, first semester.* ELECTIVE.
2. WOODLOT FORESTRY. (See Department of Forestry in the College of Agriculture.)
3. MENSURATION AND MANAGEMENT. (See Department of Forestry in the College of Agriculture.)
5. LUMBER INDUSTRY. A study of the methods and costs of logging, milling and marketing of lumber and lumber products. Text-book, lectures, inspection trips. *Three hours, second semester.* PREREQUISITE: FORESTRY 1 OR 2.
6. SILVICS. A study of the climatic, physiographic and biotic factors in their individual and collective effect on the growth of trees. Consideration of the physiology of trees in response to their environment. The course is devised to apply both in horticulture and silviculture. Research methods. *Three hours, first semester; repeated second semester.* PREREQUISITE: BOTANY 2 OR 3, OR FORESTRY 2.
7. BIOLOGICAL STATISTICS. (See Department of Forestry in the College of Agriculture.)
8. WOOD TECHNOLOGY. Study of the anatomy of wood and woody stems, with special reference to the physical relationships of the woody elements. Detailed study of the characteristics, identification, and uses of commercial woods. The principles of air seasoning, kiln drying, and storage of lumber. Lecture, demonstrations,

* For other courses in Forestry refer to the Index.

laboratory, inspection trips. *Three hours (two double periods).*
 REQUIRED (IND. ED.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS.

FRENCH

For courses in French see Romance Languages.

*GEOLOGY

Professors Jacobs and Doll

1. **INTRODUCTORY GEOLOGY.** A lecture and laboratory course in determinative mineralogy, including elements of crystallography and elementary geology, serving as an introduction to geologic science. Laboratory Fee \$2.50 per semester. *Four hours (two two-hour laboratory periods, one lecture, and one recitation.)* ELECTIVE TO ALL CLASSES. DESIRABLE PREREQUISITE: CHEMISTRY 1, 21, 22 OR 23.

Professor Doll

2. **PHYSIOGRAPHY.** A course designed to give the student a broad acquaintance with the surficial features of the earth, as well as an elementary understanding of the universe in which he lives. It includes in the first semester the elementary principles and facts of astronomy, the composition and action of the atmosphere and the ocean, the principles of meteorology and some aspects of climatology. During the second semester the relief features of the earth, their classification, description and human significance are considered, particular emphasis being placed on the physiographic divisions of the United States and Europe. Some attention is given to the economic aspects of the subject. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Jacobs

3. **ENGINEERING GEOLOGY.** This course begins with a study of the ore- and rock-making minerals, followed by a consideration of the more common rocks, their mineral composition, occurrence, and genesis. Then comes the usual treatment of structural and dynamic geology and stratigraphy. Stress is laid on those aspects of the subject most useful to engineers. Illustrated lectures, map work,

* The courses in Geology are arranged to meet the needs of two classes of students: (1) Those desiring a general knowledge of the subject, as part of a liberal education; and (2) those wishing to specialize in it during the undergraduate years in preparation for possible graduate study. For the former courses 1, 2 and 4 are suggested; for the latter, all courses except 3 and 5 are recommended. Only course 1 is open to freshmen.

and weekly field trips. Laboratory Fee \$2.50. *Three hours, first semester. (One laboratory period and two single hours per week.)*

REQUIRED (C. E.) SENIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1 OR 21, AND PHYSICS 1. *Professor Jacobs*

4. GENERAL AND HISTORICAL GEOLOGY. In the first semester a lecture, laboratory, and field course in structural geology, during which observations made in the field are discussed and supplemented by work in the laboratory. Weekly field trips, carried on as late as the season permits, to the many and varied points of geological interest within easy motoring distance of the University serve to stress the practical aspect of the subject. In the second semester a course is given in Historical Geology, supplemented by laboratory work in palæontology and by several field trips to fossil localities. The course serves to present to the student a brief outline of the geological history of the earth and its past inhabitants. Laboratory Fee \$2.50 per semester. *Three hours. (Two laboratory or field periods and one lecture per week for the year.)* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Doll*

5. ENGINEERING GEOLOGY. This course, a continuation of Geology 3, presents the modern conceptions of the earth: its possible origin, its internal condition as revealed by the seismograph, and other considerations of value to students having a scientific background. A somewhat brief consideration of historical geology closes the year. *Three hours, second semester.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: MINERALOGY 1 OR GEOLOGY 3. *Professor Jacobs*

6. OPTICAL CRYSTALLOGRAPHY AND ELEMENTARY PETROGRAPHY. A study is made first of mineral thin sections, oriented or otherwise, and then of minerals and their associations as they occur in rocks. Quite a large collection of sedimentary, igneous, and metamorphic rocks and rock sections is available for the work. Laboratory Fee \$5.00 per semester. *Three hours. (Two laboratory periods and one lecture a week.)* PREREQUISITE: GEOLOGY 1, OR MINERALOGY 1. ELECTIVE BY PERMISSION. *Professor Jacobs*

7. STRUCTURAL GEOLOGY. This course considers the architecture of the earth as seen in the various primary and secondary structural features, such as folds, fractures, faults, cleavage, batholithic intrusions, etc. Attention is given to the relation of such structures to mountain building. Instruction is given by means of lectures, collateral reading, laboratory work and fields work. Geology 4 and Geology 8 are suggested as supplements to this course. Laboratory

Fee \$2.50. *Three hours, first semester. (Two laboratory periods and one lecture a week.)* PREREQUISITE: GEOLOGY 1. Professor Doll

8. ADVANCED STRUCTURAL GEOLOGY. Laboratory Fee \$2.50. *Three hours, second semester. (Two laboratory periods and one lecture a week.)* PREREQUISITES: GEOLOGY 1 AND GEOLOGY 7. Professor Doll
108. ADVANCED SEMINAR. The department offers this laboratory seminar for those who have taken Geology 1 or 2, and 4. One or more phases of geologic science will be studied in the library and laboratory, with the aim of acquiring a broad acquaintance with the subject. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE BY PERMISSION. Professors Jacobs and Doll

GERMAN

Professors Carpenter and Ladd; Mr. Bickford and Dr. Blume

1. ELEMENTARY COURSE. A course in grammar, pronunciation, easy reading, dictation and oral practice, for students presenting less than two years of entrance German. Students taking this course must continue with German 2 the following year. (See also German 11.) *Three hours.* ELECTIVE TO FRESHMEN, SOPHOMORES AND JUNIORS.

Professors Carpenter and Ladd; Mr. Bickford and Dr. Blume

2. INTERMEDIATE COURSE. In this course emphasis is placed on the attainment of reading ability through the intensive and extensive reading of short stories, novels and plays. Particular stress is placed on the acquisition of a basic vocabulary necessary for reading German works in any special field. During the second semester two of the six sections read material dealing with the biological sciences. (See also German 11.) *Three hours.* ELECTIVE TO ALL CLASSES. PREREQUISITE: GERMAN 1 OR AT LEAST TWO YEARS OF PREPARATORY GERMAN.

Professors Carpenter and Ladd; Mr. Bickford and Dr. Blume

3. SCIENTIFIC GERMAN. A course in the reading of selected scientific works which aims not only to furnish the student a reading knowledge of that branch of science in which he is specializing, but also to acquaint him with the general development of scientific thought and method in his field and with the outstanding personalities who have influenced this development. In the second semester, individual assignments are made along the line of each student's chief scientific interest. *Three hours.* ELECTIVE TO STUDENTS MAJORING IN SCIENCE. PREREQUISITE: GERMAN 2. Professor Ladd

4. GERMAN LITERATURE OF THE CLASSIC PERIOD. The course covers a selection of the works of Goethe, Schiller and Lessing, and a survey of the development of German literature from the beginnings through the Classic period. Recitations, supplementary reading and reports are required. *Three hours.* ELECTIVE. PREREQUISITE: A GRADE OF C OR BETTER IN GERMAN 2.
Professor Carpenter
8. COMPOSITION AND CONVERSATION. A course giving practice in German composition and training in speaking the language. Free composition and oral reports on individual assignments are required. *Three hours, first semester.* ELECTIVE BY PERMISSION. THIS COURSE MAY BE TAKEN SIMULTANEOUSLY WITH GERMAN 2.
Professor Ladd
9. COMPOSITION AND CONVERSATION. A continuation of German 8. By permission it may be taken independently of it for credit. *Three hours, second semester.* ELECTIVE BY PERMISSION. PREREQUISITE: A SATISFACTORY RECORD IN GERMAN 2 OR GERMAN 8. *Professor Ladd*
10. GERMAN LITERATURE IN TRANSLATION. A survey of the development of German literature from the earliest times presented by lectures. Representative works, selected mainly from the Classic Period and the nineteenth and twentieth centuries, are read and discussed. *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. NO KNOWLEDGE OF GERMAN IS REQUIRED. (Not offered in 1942-1943.)
Professor Carpenter
11. ELEMENTARY-INTERMEDIATE GERMAN. This double course is the equivalent of German 1 and German 2. The first semester is elementary; the second, intermediate. *Six hours.* REQUIRED (CH.) FRESHMEN. ELECTIVE TO OTHERS. (Not offered in 1942-1943.)
Dr. Blume
104. GOETHE'S FAUST. A course based on class readings of Part I and portions of Part II. The sources of the poem and its influence are studied, particularly in relation to English literature and drama. There are supplementary readings assigned of various plays which deal with a similar theme. *Three hours, first semester.* ELECTIVE, PREREQUISITE: GERMAN 4. (Offered in alternate years, 1942-1943.)
Professor Carpenter
105. GERMAN LITERATURE, 1800-1850. The course includes a study of the selected works of Kleist, Grillparzer and Heine; recitations, outside reading and German reports. One hour a week is devoted to lectures and discussions on the Romantic movement and Young

Germany. *Three hours, second semester.* PREREQUISITE: GERMAN 4. (Offered in alternate years, 1942-1943.) *Professor Carpenter*

106. MODERN GERMAN LITERATURE. A course consisting of lectures and class discussions of the history of German literature since 1850. The first semester and a portion of the second are devoted to a study of German drama from Hebbel to the present-day writers. The remainder of the second semester is given to rapid reading of short stories. Typical novels are assigned for outside reading. *Three hours.* ELECTIVE. PREREQUISITE: GERMAN 4. (Offered in alternate years, 1943-1944.) *Professor Carpenter*
107. EARLY GERMAN LITERATURE. A survey of German literature from the earliest times to the Reformation, followed by a more detailed study of Middle High German and its principal literary monuments. This course is intended primarily for graduate students specializing in German. *Two hours.* ELECTIVE. *Professor Carpenter*
108. ADVANCED COMPOSITION AND CONVERSATION. This course aims to enable the student to speak and write German with facility. Special attention is paid to phonetics as a basis for the acquisition of a correct pronunciation. The course is recommended to those preparing to teach German. Students should consult the instructor before enrolling. *Three hours.* ELECTIVE. PREREQUISITE: GERMAN 4 OR 8. *Professor Carpenter*

HISTORY

Professors Evans, Putnam, Pooley and Dean; Mr. Silvester

1. ANCIENT HISTORY. A brief survey of the history of the ancient Near East, the history of Greece and Rome including the cultural development of the Greek world, the expansion of the Roman Republic and the Roman Empire. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Pooley*
2. MEDIEVAL EUROPE. A course in European History from the disruption of the Roman Empire to the Renaissance. The principal barbarian invasions, feudalism, the rise of the Christian Church and the Papacy, the Crusades, the development of culture and the rise of national states. *Three hours.* ELECTIVE. *Professor Pooley*
3. SURVEY OF MODERN EUROPE. An introduction to European history commencing with the rise of the national state and the beginnings of modern economic life. *Three hours.* REQUIRED (S. S.)

FRESHMEN. ELECTIVE TO ALL CLASSES. NO CREDIT ALLOWED STUDENTS WHO HAVE CREDIT FOR HISTORY 11 OR 12.

Professor Evans; Mr. Silvester

4. HISTORY OF LATIN AMERICA. A study of South America from the time of European discovery and settlement to the present with emphasis upon the political rise of the South American republics. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.) *Professor Putnam*
5. ENGLISH HISTORY. A survey of British affairs from prehistoric times to date. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.) *Professor Evans*
7. EARLY AMERICAN HISTORY. A course in American history from the discovery of the new continent to 1865 including a study of Colonial affairs, the Revolution, the Constitution, the new nationalism, Westward Expansion, the Slavery Controversy and the Civil War. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years 1942-1943.) *Professor Putnam*
8. RECENT AMERICAN HISTORY. A study of the History of the United States from 1865 to the present, including reconstruction, national and economic development and America as a world power. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.) *Professor Putnam*
9. HISTORY OF VERMONT. A course covering the field of state history from the Indian and colonization period to the present, based on textbook, weekly reports and classroom discussion. *One hour.* ELECTIVE. *Professor Dean*
10. HISTORY OF CANADA. A study of Canadian development from the French exploration and settlement to the present time with emphasis upon the evolution of self-government and relations with the United States. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.) *Professor Putnam*
11. EARLY MODERN HISTORY. A study of the Renaissance, the Reformation and seventeenth century Europe with special attention to the economic and social history of the period. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.) *Professor Evans*

12. EUROPE SINCE 1715. A survey of eighteenth century Europe; the French Revolution and the Napoleonic era; the age of Metternich; liberalism, nationalism, and imperialism; the World War and after. *Three hours*. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
Professor Evans
13. CONTEMPORARY HISTORY. A study of history in the making based upon newspaper and periodical material. The course stresses the historical background of current events and problems. *Three hours*. ELECTIVE BY PERMISSION. ENROLLMENT LIMITED TO FOURTEEN STUDENTS.
Professor Evans
14. AMERICAN HISTORY. A general survey of American history from the early national period to the present, designed for students who intend to take only one course in the subject. *Three hours*. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. NO CREDIT ALLOWED STUDENTS WHO HAVE CREDIT FOR HISTORY 7 OR 8.
Professor Putnam
115. SEMINAR. Advanced study in a selected field. *Two hours*. ELECTIVE TO GRADUATE STUDENTS AND SENIORS BY PERMISSION.
Professors Evans and Putnam

*HOME ECONOMICS

Professors Bailey, Holbrook and Doughty; Mrs. Morrill

32. NUTRITION. A study of the principles of normal nutrition and practical feeding problems of the individual. *Three hours, first semester*. ELECTIVE TO JUNIORS AND SENIORS. *Professor Bailey*
42. FAMILY RELATIONSHIPS. A study of the origin, development, structure, and functioning of the family in relation to present-day home and social problems. *Three hours, first semester*. ELECTIVE TO JUNIORS AND SENIORS. *Mrs. Morrill*
30. HOME MANAGEMENT. A study of the problems involved in organizing and controlling the expenditure of time, energy, and money used in managing a home. *Three hours, second semester*. ELECTIVE TO JUNIORS AND SENIORS. *Professor Doughty*
41. CHILD DEVELOPMENT. A study of the mental, emotional and social development of the child and methods of guiding this development; opportunity for observation and participation with children of pre-school age. *Three hours, second semester*. ELECTIVE TO JUNIORS AND SENIORS. *Professor Holbrook*

* For the curriculum and other courses in Home Economics refer to the Index.

LITERATURE

See courses under English. For courses in Comparative Literature see German 10; Greek 103, 105; Latin 11, 16 and English 24.

*MATHEMATICS

Professors Swift, Fraleigh, †Householder, Nicholson and Witham; Dr. D. T. McClay.

A. REVIEW OF ALGEBRA AND GEOMETRY

This course will cover the ground in elementary and intermediate algebra and some plane geometry as given in the high schools. It is designed to give students who lack adequate training in those subjects an opportunity to repair their deficiencies and prepare themselves to take Mathematics 1. Students who receive grade F in the first semester of Mathematics 1 or have dropped this course will be expected to take Mathematics A. Three hours, second semester. [*No college credit will be given for this course but students who take and pass it will be given credit for one unit in intermediate algebra for entrance.*]

1. FRESHMAN MATHEMATICS. This required course in Elementary Mathematics includes Algebra, Plane Trigonometry in the first semester, followed by Analytic Geometry and a brief introduction to Differential Calculus. *Credit: Algebra and Trigonometry, four semester hours; Analytics, four semester hours.* REQUIRED (CH., S. ED., G. S., PR. MED., S. S.) FULL YEAR AND (AG.) FIRST SEMESTER ONLY. FRESHMEN.
2. CALCULUS. A study of the Differential and Integral Calculus. *Three hours.* REQUIRED (CH., G. S.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: MATHEMATICS 1.
4. PROJECTIVE GEOMETRY. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: MATHEMATICS 1. (Offered in 1941-1942.)

* Those who expect to teach Mathematics must take course 2 and should take courses 4 or 5.

Not all these courses will be given in any one year; those planning to take any of courses 103, 4 and 105 should consult the instructor before the close of the year preceding that in which they intend to take such course.

A major in Mathematics must include Mathematics 2. Courses 6 and 7 may not be counted toward a required major in Mathematics.

† Absent on leave of absence for defense work.

‡ May be taken for three hours credit by students having credit in Mathematics 1.

5. MODERN GEOMETRY. *Three hours.* ELECTIVE. PREREQUISITE: MATHEMATICS 1. (Offered in 1942-43.)
6. SOLID GEOMETRY. The usual theorems and constructions. Emphasis will be placed on original exercises and on the formal presentation of assigned work in class. *Three hours, first semester.* ELECTIVE.
7. ADVANCED ALGEBRA. A study of selected topics in Advanced Algebra. *Three hours, second semester.* ELECTIVE.
- ‡11. MATHEMATICS OF FINANCE. *Four hours.* REQUIRED (BUS., SEC., CT.) FRESHMEN.
14. THE TEACHING OF ALGEBRA AND GEOMETRY. A course presenting the best modern practices in America and abroad in the teaching of Algebra and Geometry. It includes a discussion of such problems as the position of Algebra and Geometry in the curriculum, the reorganization of subject matter and the sequence of topics, aims in teaching and a consideration of investigations that have been conducted in the teaching of secondary mathematics. This course may be counted as a half course in Education by those taking two other courses in Education. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS WHO HAVE COMPLETED MATHEMATICS 2. THE PREVIOUS COMPLETION OF A COURSE IN EDUCATION IS DESIRABLE.
Professor Nicholson
103. ADVANCED CALCULUS. An advanced study of Differential and Integral Calculus with an introduction to Differential Equations. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: MATHEMATICS 2.
105. THEORY OF FUNCTIONS. *Three hours.* ELECTIVE TO SENIORS. PREREQUISITE: MATHEMATICS 103.

MINERALOGY

Professors Jacobs and Doll

- *1. This course aims to give familiarity with the more commonly occurring minerals, their composition, physical properties, crystalline form, and their importance as ores, gems, commercial products, or as constituents of rocks. Laboratory work in blow-piping, determination of unlabeled species, study of crystallography from

* Some knowledge of general Chemistry is necessary, but students of ability who have not had Chemistry may make up the deficiency without charge by spending a few hours with the instructor.

models and natural crystals, examination of gems. Laboratory Fee \$3.00. *Three hours, first semester.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY I OR 21.

†MUSIC

HISTORY AND THEORY OF MUSIC

Professor Bennett; Miss Marston, Mrs. Bradish, Messrs. Pappoutsakis and Anselmo

1. SURVEY OF MUSICAL LITERATURE. A listener's course in music, aiming to acquaint the student especially with the choral music of the sixteenth century, with the compositions of Bach, Handel, Haydn, Mozart, Beethoven, and the romantic and modern composers, and with the musical customs and ideals of their times. The instruction includes lectures on the evolution of musical structure and style; illustrations on the phonograph and reproducing piano; class singing of choral and operatic music; reading of musical biography, history, and criticism; and assigned work with automatic instruments. Previous technical knowledge not required. *Three hours.* REQUIRED (MUS. ED.) FRESHMEN. ELECTIVE TO OTHERS.
3. ELEMENTARY HARMONY. The study of chords—how to arrange them effectively, how to connect them smoothly, and how to employ them to accompany a melody. Students write chords in musical notation, play them on the piano, and recognize them by ear. Melodies for harmonization include not only the usual text-book exercises, but also folk-songs and melodies from the works of the great composers. This course presupposes a musical ear capable of recognizing any tone of the scale if the first tone be given, and the ability to read and play on the piano music at least as difficult as an ordinary hymn. *Three hours.* REQUIRED (MUS. ED.) SOPHOMORES. ELECTIVE BY PERMISSION.
4. ADVANCED HARMONY AND HARMONIC ANALYSIS. *Three hours.* REQUIRED (MUS. ED.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: MUSIC 3.
5. COUNTERPOINT. *Three hours.* ELECTIVE. PREREQUISITE: MUSIC 3.

Professor Bennett

† A major in music must include Music 1, 3 and 4 or 5, the related minor being German, French, or Italian. See Index for Curriculum in Music Education.

8. ELEMENTARY SIGHT-SINGING. A course in sight-singing, dictation and theory, designed primarily to precede or accompany Music 3, Elementary Harmony, but may be taken separately. *Two hours.* REQUIRED (MUS. ED.) FRESHMEN. ELECTIVE TO OTHERS.
9. ADVANCED SIGHT-SINGING. Advanced training in Sight-singing, dictation and theory designed to precede or accompany Music 4, Advanced Harmony, or Music 5, Counterpoint, but may be taken separately. *Two hours.* REQUIRED (MUS. ED.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: MUSIC 8. *Mr. Pappoutsakis*
10. SECONDARY SCHOOL MUSIC AND PRACTICE TEACHING. The psychology and principles of teaching applied to high school music. The course presents the organization, administration and content of the required and elective music courses in the senior high school, the project method and material for public performances, the formulation of courses of study including bibliography of available texts, a study of individual problems in various fields of study in public school music and observation and practice teaching. Students electing this course must have credit for or be enrolled in Music 1 and Music 8. *Three hours.* REQUIRED (MUS. ED.) SENIORS. ELECTIVE BY PERMISSION. *Miss Marston*
11. ORCHESTRATION AND CONDUCTING. A study of range, transposition, and characteristics of instruments; elementary instrumental technique; score reading; choral and orchestral literature; arranging; baton technique and practice conducting. *Three hours.* REQUIRED (MUS. ED.) SENIORS. ELECTIVE BY PERMISSION. PREREQUISITE: MUSIC 3; PREFERABLY ALSO MUSIC 4. *Mr. Pappoutsakis*
12. APPLIED MUSIC METHODS. Methods of teaching piano, organ, singing, or violin. *One hour.* REQUIRED (MUS. ED.) SENIORS. PREREQUISITE: THREE YEARS' INSTRUCTION IN CHOSEN INSTRUMENT AT THE UNIVERSITY, OR EQUIVALENT. *Miss Marston, Mrs. Bradish and Mr. Anselmo*
106. CANON AND FUGUE. *Three hours.* ELECTIVE BY PERMISSION. PREREQUISITES: MUSIC 4 AND 5.
107. COMPOSITION. *Two hours.* ELECTIVE BY PERMISSION. PREREQUISITES: MUSIC 4 AND 5. *Professor Bennett*

SCHOOL MUSIC

335. SCHOOL MUSIC 1. Ear training, music reading and writing, elementary theory, rhythmic and melodic dictation. Tonal notation and relations: diatonic scales, intervals, chromatic alterations, triads,

tonality, modality, signatures. Rhythmic notation: measure, principal combinations and divisions of simple and compound measure, both normal and abnormal. Applied solfeggio. This course is designed primarily to supply the subject matter prerequisite to El. Ed. 336 (School Music 2). *Three hours.* REQUIRED EL. ED.

336. SCHOOL MUSIC 2. This course is designed for students in Elementary Education and others who wish to prepare to teach music in the schools. Study of the objectives of grade school music, analysis of basic principles of accepted practice, survey of present tendencies, followed by a detailed study of the problems of each of the grades. Emphasis is placed during the first half year on effective classroom procedure, the care and culture of the child's voice, rote singing, the teaching of reading and theory; during the second half year, on the development of part singing and appreciation, the selection of material, the evaluation of tests and measurements, and the special problems of the rural school. PREREQUISITE: EL. ED. 335 OR MUSIC 8. *Three hours.* REQUIRED EL. ED. *Mr. Pappoutsakis*
345. ELEMENTARY SCHOOL MUSIC METHODS AND PRACTICE TEACHING. The teaching of music in the primary and grammar grades. The topics include classroom management, definite lesson plans for each grade, discussion of the various methods in use, the psychology of school music teaching, tests and measurements in music education. Observation of the music in the grades in the Burlington school system and teaching of children under supervision. Students must have credit for or be enrolled in Music 1 and Music 8. *Three hours.* REQUIRED (MUS. ED.) JUNIORS. ELECTIVE (EL. ED.) JUNIORS AND SENIORS. *Miss Marston*

APPLIED MUSIC

PIANO AND ORGAN, *Miss Marston*; SINGING, *Mrs. Bradish*; VIOLIN, *Mr. Anselmo*

The purpose of instruction in piano, organ, violin and singing in the University is to give the student, through actual performance, a more intimate appreciation of music than can be acquired through listening alone. To perform the best musical literature demands both technical and interpretative ability. The aim of the technical instruction is not only to give the student necessary dexterity, but also to achieve a critical understanding of the principles of instrumental and vocal technique.

Students may take either one or two half-hour lessons per week. The fees for instruction and use of organ and practice piano are given elsewhere in this Catalogue.

One semester hour of credit will be given for one private lesson in piano, organ, voice or violin, under a member of the department, and five hours practice per week; and two semester hours of credit for two private lessons and ten hours practice per week, upon the recommendation of the instructor concerned and of the head of the department, and on condition that the instruction be accompanied or preceded by any of the following courses: Music 1, Survey of Musical Literature; Music 3, Elementary Harmony; Music 4, Advanced Harmony and Harmonic Analysis; Music 5, Counterpoint.

PHILOSOPHY

Professors Gifford and Dykhuizen

- *1. LOGIC. The purpose of the course is the development of a critical attitude and the detection of the characteristic fallacies of thought. The study includes the general principles and conditions of right thinking, the scientific enterprise as illustrating reflective thinking at its best, the correct methods of thinking as applied to the fields of ethics, law, history, metaphysics, aesthetics and religion. *Three hours, first semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
- *2. ETHICS. A study of the historical development of man's moral consciousness as he rises from savagery and advances in civilization, followed by the more significant theories of the moral regulation of life. The course aims to develop an acceptable and coherent theory of personal conduct. *Three hours, second semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Dykhuizen*
3. SOCIAL ETHICS. The various social maladjustments which arise in modern society are considered and there is a critical study of various practical ways of applying psychological knowledge and ethical principles to the regulation of social life in its various phases. Among the problems studied are those centering in the regulation of family life, industrial relations, voluntary associations, political activities, public health, delinquency and crime. The ideals of harmonious and progressive community and national life and of freely developed individuality are held constantly in mind and a scheme of adjustment sought. This course supplements Philoso-

* Either course $\frac{1}{2}$ or $\frac{4}{5}$ is an alternate requirement with Psychology 1 in all group elective curricula.

phy 2. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 3 OR PHILOSOPHY 2.

Professor Gifford

- *4. HISTORY OF ANCIENT AND MEDIAEVAL PHILOSOPHY. The rise and development of critical thinking among the Greeks are outlined and the relations of Greek to modern thought indicated. Somewhat detailed consideration is given the works of Plato, Aristotle and the Stoics. The more important mediæval systems are examined for the purpose of determining the chief characteristics of Scholastic Philosophy. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
- *5. HISTORY OF MODERN PHILOSOPHY. After an introductory study of Renaissance movements the development of philosophy from Descartes to Hegel is traced in detail. A rapid survey of nineteenth century tendencies concludes the course. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS.
10. INTELLECTUAL BACKGROUND OF MODERN LIFE. Beginning with a study of the world-views of Plato and Aristotle, this course presents the various pictures of the world which have been influential in determining the world-view of today. Special emphasis is placed upon the part played by philosophy, science, and religion as determining factors in the life of today. *Three hours, first semester.* ELECTIVE TO SENIORS.
Professor Dykhuizen
106. HISTORY OF RECENT PHILOSOPHY. A study of the more significant philosophical systems of the nineteenth century with reference to contemporary thought. Especial attention is given to Neo-Hegelianism, Naturalism, Pragmatism, and Neo-Realism. Selected readings. *Three hours, first semester.* ELECTIVE TO SENIORS. PREREQUISITE: PHILOSOPHY 4 AND 5.
107. PHILOSOPHICAL CRITICISM. An advanced and detailed study of some important historical system. The subject is chosen in consultation with the class. *Three hours, second semester.* ELECTIVE TO SENIORS BY PERMISSION.
108. HISTORY AND INTERPRETATION OF RELIGION. The course first presents a genetic and historical study of man's religious life. This survey of the religious beliefs and ceremonies of savagery and civilization is followed by a critical and constructive study of the higher religions. After the study of Brahmanism, Buddhism, Mazdeism, Islam and Judaism there is a final appreciation of the

* See footnote, page 170.

distinctive and essential elements of Christianity. *Three hours, first semester.* ELECTIVE TO SENIORS.

109. METAPHYSICS. Typical theories concerning the nature of truth and the nature of reality are outlined and criticized with the intent of evoking a coherent theory of the essential character of reality and the significance of human life. *Three hours, second semester.* ELECTIVE TO SENIORS. *Professor Gifford*
210. INTELLECTUAL BACKGROUND OF MODERN LIFE. A Graduate Course based upon Randall's "Making of the Modern Mind." Required of resident candidates for the degrees, Master of Arts, and Master of Science. *Three hours, first semester.* *Professor Dykhuizen*

PHYSICAL EDUCATION

For courses refer to the Index.

PHYSICS

*Professors *Holmes, Walbridge, Woodward and Rooney; Messrs. Showalter and †C. Adams*

1. GENERAL PHYSICS. An elementary study of some of the experimental facts and fundamental principles of mechanics, properties of matter, heat, sound, magnetism, electricity and light. The purposes are to train the students in the scientific method of reasoning and to enable them to acquire a knowledge of their physical environment. A demonstration lecture is given each week for illustrating the subject-matter of the course. Two hours are devoted to quizzes and discussions. Four hours are for laboratory work. Each student performs about sixty experiments selected to develop skill in observation, to give practice in reasoning and to furnish a more intimate knowledge of phenomena and principles. Laboratory Fee \$5.00 per semester. *Five hours.* REQUIRED (CH., G. S., PR. MED., ENG.). ELECTIVE TO OTHERS. PREREQUISITE: MATHEMATICS 1.
Professors Holmes, Woodward, Rooney, Walbridge and Showalter
101. MECHANICS. An intermediate course emphasizing fundamental physical principles. Topics such as the following are studied: force and Newton's laws with attention to frames of reference; statics of systems of particles and of rigid bodies; work done when the

* Absent on military leave.

† Left for military service, January, 1942.

force is constant and when it is variable; the principle of virtual work; potential and kinetic energies; the principle of conservation of energy and the application of energy principles to conditions of equilibrium; equations of motion of a particle under constant forces; rotation of rigid bodies and application of the principle of conservation of momentum. It may be possible to introduce generalized coordinates, the principle of least action and some of the modern developments in wave mechanics and quantum theory. Lecture demonstrations are shown. No Laboratory Fee. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS 1 AND CALCULUS. (Offered in alternate years, 1942-1943.)

Professor Walbridge

102. HEAT. An intermediate study of experimental results and of descriptive theory together with some of the practical applications and the significance of the development of certain phases of modern physics. The following topics are included: thermal expansion; thermometry; calorimetry; theory of the conduction of heat leading to the Fourier wave equations; first and second laws of thermodynamics; kinetic theory of heat; laws of radiation and introduction to the quantum theory of radiation. Laboratory work includes temperature measurements, heats of combustion, mechanical equivalent of heat and radiation measurements with a sensitive thermopile. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS 1 AND CALCULUS. (Offered in alternate years, 1942-1943.)

Professor Woodward

103. SOUND. Not offered in 1942-1943.

104. ELECTRICITY AND MAGNETISM. An intermediate course in fundamental principles and their applications to electrical and to magnetic equipment. The following topics are studied: magnetic and electric fields; terrestrial magnetism; energy relations with electric currents; resistance; inductance; capacitance; induced currents; magnetization of iron; thermo-electric effects and phenomena in evacuated tubes. In the laboratory the class applies the general principles to magnetic and to electrical measurements such as current strength, potential difference, resistance, capacitance, inductance, temperature measurements with thermocouples and to experiments with vacuum tube circuits. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS 1 AND CALCULUS. (Offered in alternate years, 1943-1944.)

Professor Holmes

105. X-RAYS AND ELECTRON THEORY. The lectures include the description and theory of experiments which have resulted in modern conceptions of the electron and of experiments which resulted in the discovery of x-rays. Topics such as the following are considered: The production of x-rays in modern tubes and the general properties of x-rays; the absorption and scattering of x-rays; x-ray diffraction and crystal structure and x-ray spectra with applications to atomic structure. In the laboratory the class employs a 200 kilovolt Coolidge tube for wave length measurements using a crystal spectrometer and for experiments on absorption and on scattering. A 60 kilovolt Coolidge tube is used for the determination of crystal structures. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS I AND CALCULUS. (Offered in alternate years, 1943-1944.)
Professor Walbridge
106. LIGHT. An intermediate course in geometrical optics, physical optics and spectroscopy. In geometrical optics the image equation for any reflecting or refracting surface and the equations in terms of cardinal planes for any centered optical system are derived. In physical optics the wave theory of light is used for the description of the phenomena of interference, diffraction and polarized light. In spectroscopy the spectral series relations are considered with their applications to modern theories of atomic structure. Laboratory work includes experiments with combinations of lenses and of mirrors, and experiments with polarized light. The spectra of some of the elements are investigated and photographed with the Rowland grating and with various types of spectrometers. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PHYSICS I. (Offered in alternate years, 1943-1944.)
Professor Woodward
107. MODERN PHYSICS. A study of certain parts of physics which are either in the process of active formation or which have recently been developed. Such subjects are often classified as electron physics or atomic physics. Topics to be studied are: the conduction of electricity through gases and conclusions regarding the behaviors of atoms and of electrons; the emission of electrons from hot solids with applications to electron tubes; properties of alpha, beta and gamma rays; natural and artificial radioactivity; recently discovered parts of atoms known as neutrons and positrons; transmutation of the elements and recent work with cosmic rays. Laboratory work will include the ionization of gases by short wave radiation

and by radio-active substances; measurements of resonance and ionization potentials; experiments on the photo-electric effect, radioactivity, and cosmic rays. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PHYSICS 1. (Offered in alternate years, 1942-1943.)

Professor Rooney

108. INTERMEDIATE LABORATORY COURSE. A course for students who have selected physics as a major or as a minor subject. The student will do more intensive experimental work on some subject selected in consultation with the instructor than is possible in the courses above described and the student will work without detailed guidance. The course is intended to give experience in independent work where it will be necessary for the student to study the subject without the usual classroom and lecture assistance, to plan laboratory experiments and to prepare reports. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO SENIORS. PREREQUISITE: ANY ONE OF THE OTHER INTERMEDIATE COURSES.

Professor Holmes

GRADUATE COURSES

The general aim of the advanced courses is to start the student in the independent study of theoretical and experimental aspects of the phenomena of the chosen field. The requirements include assigned readings of important scientific papers with regular conferences for discussion, an assigned topic for elementary research and a thesis upon the topic at the conclusion of the research work. These courses are open only to graduate students and may be taken only by permission of the professor in charge of the course. The Seminar is required of all graduate students.

202. ADVANCED COURSE IN SPECTROSCOPY. *Professor Woodward*

203. ADVANCED COURSE IN ELECTRICITY AND MAGNETISM.

Professor Holmes

204. SEMINAR. The members of the staff and graduate students meet one hour each week for the study of contemporary advances in Physics, for discussion of subjects of especial interest to the members of the group and for reports on research problems currently being carried on in the department. *One hour.* REQUIRED OF ALL GRADUATE STUDENTS.

Professor Holmes

POLITICAL SCIENCE

*Professors Carroll, Nuquist and *Laatsch; Messrs. Millikan and Long*

1. AMERICAN GOVERNMENT. A study of national, state, and local government in the United States. The aim of the course is to deal not only with the mechanism of government, but with its practical operation. The first semester is devoted to the national government, and the second to state and local government. *Three hours.* REQUIRED (S. S., BUS., SEC., CT.) FRESHMEN OR SOPHOMORES. ELECTIVE TO OTHERS.

Professors Carroll and Nuquist; Messrs. Millikan and Long

3. INTERNATIONAL RELATIONS. This course deals with the fundamental problems affecting the political relations of the states of the world with special attention given to such controlling factors as nationalism, imperialism, and militarism. It embraces a study of the war system, the reasons for its continuance and proposals for its abolition, and the efforts to develop an effective international organization, with special reference to the League of Nations. The foreign policies of selected states will be examined for the purpose of revealing the nature and cause of the conflict of national policies, causes of war, and present resources for international peace. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Mr. Long

5. COMPARATIVE GOVERNMENT: THE BRITISH COMMONWEALTH OF NATIONS. A course presenting the development, organization, and function of the political institutions of Great Britain, the self-governing dominions, and the colonies and a comparison of these institutions with the political institutions of the other leading states of the world. The influence of England in shaping the governmental institutions of other countries. *Three hours, first semester.* ELECTIVE. PREREQUISITE: POLITICAL SCIENCE 1. *Professor Carroll*

6. COMPARATIVE GOVERNMENT: CONTINENTAL EUROPE. A comparative study of the organization and function of the governmental institutions of the leading states of Continental Europe. An analysis of the influence of these institutions in shaping those of other states. Emphasis is laid upon types of government. *Three hours, second semester.* ELECTIVE. PREREQUISITE: POLITICAL SCIENCE 1.

Professor Carroll

* Absent on leave 1941-1942.

7. VERMONT LOCAL GOVERNMENT. This course is a practical study of organization, function, principles, and procedure in the administration of local government in Vermont. Such problems as town finance, land planning, state control, town reporting, etc., are treated in detail. The significance of Vermont institutions in the preservation of democracy is emphasized. *Three hours, first semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Nuquist*
8. MUNICIPAL GOVERNMENT AND ADMINISTRATION. A study of basic problems and significant developments in the field of municipal government. Subjects considered are the social and economic causes and consequences of city growth, the relation of urban government to modern civilization, the law of municipal corporations, existing forms of city government, law enforcement, police and fire protection, traffic, sanitation, health protection, zoning, metropolitan planning, housing, schools, parks and present financial difficulties. *Three hours, first semester.* ELECTIVE. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED. (Offered in alternate years, 1943-1944.) *Professor Nuquist*
104. THE AMERICAN CONSTITUTION. A study of the interpretation and development of the Constitution of the United States through the judicial process, as evidenced in leading decisions of state and federal courts. An analysis of the evolution and significance of leading constitutional doctrines and their influence upon the governmental process in the United States. Particularly recommended to students of the history and government of the United States and to prospective law students. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES POLITICAL SCIENCE 1. *Mr. Millikan*
106. FOREIGN RELATIONS OF THE UNITED STATES. An analysis of the evolution of American foreign policy from 1776 to the present. Leading American policies, such as, territorial expansion, Monroe Doctrine, Caribbean policy, Far Eastern policy, Pan-Americanism, international arbitration, and status of the United States as a world power, are studied and compared. Attention is given to the organization set up for, and the methods used in, handling American foreign relations. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED. *Mr. Millikan*
107. FAR EASTERN POLITICS. A study of the races, the civilization, and the political, economic, and social development of the Far East. Attention is given to the activity and interests of European nations and the United States in this region and to the internal and external

growth of the states located in this area. *Three hours, second semester.* ELECTIVE. (Offered in alternate years, 1943-1944.)

Professor Nuquist

111. POLITICAL PARTIES. This course is intended to familiarize the student with the fundamental problems of popular control of government, including the nomination and election of candidates to public office, the forces which determine attitudes of the people toward public questions, non-voting, the short ballot, suffrage reform, the organization and function of political parties, etc. An effort is made to give the student fundamental principles which may be used as a basis for the solution of political problems. *Three hours, second semester.* ELECTIVE. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED.
Professor Carroll
112. HISTORY OF POLITICAL THOUGHT. This course traces the development of political theories from Socrates to the theorists of the present day. An effort is made to follow particularly the origin and growth of ideas of government which are now recognized as important. *Three hours, first semester.* ELECTIVE.
Professor Carroll
114. INTERNATIONAL LAW. A study of the legal basis of international relations, including the nature and development of international law, the legal attributes, rights and obligations of states, treaties, pacific methods of settling international disputes, the law of land and naval warfare, and neutral rights and obligations. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED. (Offered in alternate years, 1942-1943.)
Professor Nuquist
115. PUBLIC ADMINISTRATION. A study of the nature and development of administrative agencies and services in national, state, and local governments. Particular attention is given to the new agencies which exercise quasi-legislative and quasi-judicial functions. Budget, merit, purchasing, and accounting systems are analyzed and evaluated with reference to the public interest. *Three hours.* PREREQUISITE: POLITICAL SCIENCE 1.
Professor Nuquist

FOREIGN SERVICE EXAMINATIONS

The Federal Act of May 24, 1924, known as the Rogers Act, effective July 1, 1924, for the improvement and reorganization of the Foreign Service, provides that new appointments to the service shall be to the grade of Foreign Service Officer, unclassified, after examination, and

that appointments to the higher grades shall be made from this unclassified group.

The examination under this Act is in two parts, one written and the other oral. The written examination includes the following subjects: Modern languages (either French, German, or Spanish is required); elements of international, commercial, and maritime law; political and commercial geography; the natural, industrial, and commercial resources and commerce of the United States; American history, government, and institutions; history since 1850 of Europe, Latin America, and the Far East; elements of political economy; and arithmetic as used in commercial statistics, tariff calculations, exchange, and simple accounting. Candidates are also rated in English, composition, grammar, punctuation, spelling, and penmanship, as shown by their replies to questions in the written examination.

The oral examination is designed to ascertain "the physical, mental, and temperamental qualifications of candidates for the proper performance of the duties of the Foreign Service; their character, ability, address, judgment, and fitness, general education, culture, contemporary information, experience and business ability."

Detailed information as to the time and place of holding examinations, notifications to prospective candidates, etc., will be furnished by the Department of State on application.

The courses offered in this department which should be especially valuable as a preparation for the Foreign Service examination are as follows: Political Science 1 (American Government); Political Science 5 and 6 (Comparative Government); Political Science 104 (The American Constitution); Political Science 106 (Foreign Relations of the United States); Political Science 107 (Far Eastern Politics); Political Science 114 (International Law).

Any other course offered in this department should be decidedly helpful. Students who are interested should consult the heads of other departments that offer courses falling within the general scope of the examination to determine what additional courses offered in the University should be valuable as a preparation for the examination.

PSYCHOLOGY

*Professors Metcalf, Gifford and Collier; Drs. *L. A. Riggs, Smith and W. C. H. Prentice*

1. GENERAL PSYCHOLOGY. An introductory course covering the entire field. While all branches of the subject are treated, emphasis is upon the psychology of the normal, adult human being. *Three hours.* REQUIRED (EC., H. E., AND ED.). ALTERNATE REQUIREMENT (CL., L. S., S. S., AND G. S.). ELECTIVE TO OTHER SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE TO OTHER COURSES IN PSYCHOLOGY.

Professors Metcalf and Collier; Drs. Smith and Prentice

2. APPLIED PSYCHOLOGY. Following an introduction to applications of psychology through a study of individual differences, the fundamental principles and facts of psychology are reviewed with regard to their contribution in solving personal and social problems of a practical nature. Among the topics considered in detail are the following: vocational guidance, personnel management, job analysis, methods of influencing others through special appeals, advertising and propaganda, the psychological conditions of accidents, and problems of individual and group efficiency. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.

Professor Collier

3. SOCIAL PSYCHOLOGY. A study of the relation of human traits and impulses to social tendencies and developments. The course will consider the various ways in which the growth and achievement of the individual are affected by the social environment and group activities; the interaction of individuals in crowds, clubs, parties and other groupings; and the manner in which individuals and smaller groups influence the life and development of communities. This course is supplemented by Philosophy 3 in the second semester. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.

Professor Gifford

4. GENETIC PSYCHOLOGY. A study of mental processes from the point of view of their development. The progress from simpler to more complex forms of behavior in animal life is studied in connection with the mental development of the human individual from birth to maturity. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.

* Absent on leave 1941-1942.

5. ABNORMAL PSYCHOLOGY. A study of the abnormal mental processes occurring in insanity, criminality, feeble-mindedness, "shell shock," aphasia, and the relationship which these states bear to normal mental states. The views of the leading psycho-analysts will be critically considered. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.
Dr. Smith
7. AESTHETICS. A study of the psychological aspects of the reaction of the individual to the beautiful in nature and in art. The history of the subject is first considered, then modern theories and the results of experimental work in this field are discussed. An attempt is made to develop a consistent psychological interpretation of the aesthetic attitude. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Metcalf*
8. PSYCHOLOGICAL TESTS AND MEASUREMENTS. The course will begin with a careful study of statistical methods as these are used in the field of mental testing. The theory of psychological measurement will be considered in connection with the development and standardization of tests, and in its relation to differences in personality, special ability, and general intelligence. Finally, individual training will be given in the administration of mental tests and in the interpretation of results. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Collier*
9. HISTORY OF PSYCHOLOGY. A historical survey of systematic attempts to interpret the mind. The systems of ancient and mediaeval thinkers will first be considered somewhat briefly. Then the development of modern psychology will be traced, with special attention to the influence of scientific thought. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.
10. SYSTEMATIC PSYCHOLOGY. A study of the various contemporary schools of psychological thought such as structuralism, functionalism, dynamic psychology, behaviorism, *Gestalt* psychology, and the psycho-analytic interpretations. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Metcalf*
106. EXPERIMENTAL PSYCHOLOGY. A course in which the student is given an opportunity to perform experiments basic to the factual material of modern psychology. Emphasis is placed upon the technique of experimentation and the evaluation of experimental data. Topics covered include sensory, perceptual, attentive, emotional,

learning and reaction processes. Each student may conduct a special experiment of his own toward the end of the course. *Three hours.* (*Two two-hour laboratory periods and a one-hour lecture period.*) ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Dr. Prentice*

ROMANCE LANGUAGES

FRENCH

Professors Myrick, DeForest, Doane and Towne; Dr. Johnston

1. ELEMENTARY COURSE. A course in grammar, pronunciation, composition and translation, dictations and use of the spoken language for beginners and students who present less than two years of preparatory French. Students taking this course must continue with French 3 the following year. *Three hours.* ELECTIVE TO FRESHMEN, SOPHOMORES AND JUNIORS. *Dr. Johnston*
2. INTERMEDIATE COURSE FOR SCIENCE STUDENTS. A course in French prose; grammar, translation and composition. Readings adapted particularly to the needs and interests of students in the General Science and Pre-Medical Curricula. *Three hours.* ELECTIVE TO ALL CLASSES. PREREQUISITE: FRENCH 1 OR TWO YEARS OF PREPARATORY FRENCH. *Dr. Johnston*
3. INTERMEDIATE COURSE. A course in French Prose and Poetry, grammar, composition and translation, collateral reading, dictations and conversational exercises. The class work is conducted in French. Reserved sections are offered to students who expect to major in French. *Three hours.* ELECTIVE TO ALL CLASSES. PREREQUISITE: FRENCH 1 OR TWO YEARS OF PREPARATORY FRENCH. *Professors Doane and Towne; Dr. Johnston*
4. FRENCH LITERATURE OF THE NINETEENTH CENTURY. An advanced course including lectures, recitations, collateral reading, reports and assignments in advanced composition. The lectures deal with the growth of Romanticism and the reactions to Realism, Naturalism and present-day tendencies. The course is conducted in French. Reserved sections are offered to students who expect to major in French. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: FRENCH 3.

Professors Myrick, DeForest, Doane and Towne

105. FRENCH LITERATURE IN THE NINETEENTH CENTURY FROM THE ROMANTIC SCHOOL TO 1900. The course consists of lectures, out-

- side reading and reports. The class work is conducted in French and a ready reading knowledge of French is presumed. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Rotating course offered 1942-1943.)
Professor Myrick
106. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. The course includes readings and recitations, and a series of lectures on the development of classic literature. The influence of Society, the Academy and the Church on the French literature of this period is emphasized. The romance, poetry and drama are read and studied. Collateral readings and reports are assigned. The course is conducted in French. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Rotating course offered 1943-1944.)
Professor Myrick
107. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. A course consisting of selected readings, lectures on the growth of liberalism, the "return to nature," the drama, and the novel. Voltaire, Rousseau and their influence on modern thought are emphasized. Collateral readings and reports are assigned. The course is conducted in French. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Rotating course offered 1941-1942.)
Professor Myrick
108. FRENCH CONVERSATION AND COMPOSITION. An advanced course in composition including lessons in phonetics. Exercises in advanced conversation continue throughout the year. This course is required of those who expect to be recommended as teachers of French. *Three hours.* ELECTIVE BY PERMISSION. PREREQUISITE: GOOD STANDING IN FRENCH 4.
Professors Myrick and DeForest
109. FRENCH READINGS IN THE FOURTEENTH AND FIFTEENTH CENTURIES. A course based on readings from Joinville, Commines, Froissart, Villon, and other contemporary writers. Outside reading and reports are required. *Two hours, first semester.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
110. FRENCH LITERATURE OF THE SIXTEENTH CENTURY. A course based on readings from Montaigne, Rabelais, the Pléiade Poets, and other contemporary writers. Outside reading and reports are required. *Two hours, second semester.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
111. OLD FRENCH. A series of lectures on Old French phonology and morphology and selected readings from the oldest texts. *Three*

hours. ELECTIVE TO SENIORS AND GRADUATE STUDENTS BY PERMISSION. PREREQUISITE: COURSES IN ADVANCED FRENCH AND LATIN I. (Given 1942-1943.) *Professor Myrick*

112. ADVANCED COMPOSITION AND CONVERSATION. The course includes the translation into French of difficult modern English prose, free composition and subjects assigned or chosen with discussion of questions of rhetoric and style. Practice in advanced conversation continues throughout the year. *Three hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS. *Professors Myrick and DeForest*
113. MODERN FRENCH DRAMA. Plays by Scribe, Dumas fils, Augier, Becque, Brieux, Hervieu, Lavedan, and Maeterlinck are read. The history of the modern drama in France is traced briefly, and there is outside reading on the drama. The classroom work includes written summaries of portions of the plays read, discussion of the text assigned, and lectures on dramatic technique and literary history. The course is conducted in French. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. *Professor DeForest*
200. ADVANCED COURSES may be taken by graduate students, and resident candidates for the degree of Master of Arts, for whom further opportunities for independent work will be provided. Qualified graduate students majoring in French may be permitted to take advanced courses in Italian or Spanish. *Professor Myrick*

ITALIAN

Professor Myrick

1. ELEMENTARY ITALIAN. A beginner's course in grammar and composition with frequent drill in pronunciation, dictation and practice in the spoken language, composition, daily reading of standard modern Italian authors. Enrollment is restricted to students who have had good standing in other language courses. *Three hours.* ELECTIVE BY PERMISSION.
2. ADVANCED ITALIAN. The readings in this course include Petrarca, *Rime*; Tasso, *La Gerusalemme Liberata*; and selected cantos from Dante's *La Divina Commedia*. *Two hours.* ELECTIVE. PREREQUISITE: ITALIAN 1.

SPANISH

Professors Myrick, DeForest, Doane and Towne; Dr. Johnston

1. ELEMENTARY SPANISH. A beginner's course including grammar, composition and translation with frequent practice in pronuncia-

tion, dictations, and use of the spoken language. If possible, at least a few of the more famous chapters of Cervantes' *Don Quijote* will be read toward the end of the year. Students taking this course must continue with Spanish 2. *Three hours.* ELECTIVE.

Professors Doane and Towne; Dr. Johnston

2. INTERMEDIATE SPANISH. A course consisting of readings from authors such as Becquer, Pardo Bazán, Taboada, Galdós, Pereda, Blasco-Ibáñez. Advanced composition, dictation and conversational practice are included. *Three hours.* ELECTIVE. PREREQUISITE: SPANISH 1 OR THE EQUIVALENT.
Professors DeForest and Towne; Dr. Johnston
103. SPANISH LITERATURE IN THE NINETEENTH CENTURY. This course, conducted in Spanish, consists of readings of selected texts illustrative of the Romantic, Realist and Naturalist schools with recitations, collateral reading, reports and advanced composition. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: A GRADE OF NOT LESS THAN C IN SPANISH 2. *Professor Myrick*
104. SPANISH CONVERSATION AND COMPOSITION. A course in conversation based on current topics and a manual, including lessons in phonetics, intonation and supplemented by training in advanced composition. The course is conducted in Spanish and is required of those who expect to be recommended to teach the subject. *Three hours.* ELECTIVE TO JUNIORS, SENIORS AND GRADUATE STUDENTS WHO HAVE HIGH STANDING IN SPANISH 103. *Professor DeForest*
105. OLD SPANISH. An introduction to Spanish literature from the beginnings to the end of the mediaeval period with readings from early texts. Study of the development of sounds, forms and syntax from vulgar Latin into Spanish. *Two hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS. PREREQUISITES: HIGH STANDING IN ADVANCED COURSES IN SPANISH AND LATIN 1. *Professor Myrick*
200. The department offers advanced courses in Old Spanish and Spanish Literature for graduate credit to resident candidates for the Master's degree. Qualified graduate students majoring in Spanish may be permitted to take advanced courses in French or Italian.
Professor Myrick

SOCIOLOGY

Professor Gifford

1. THE DEVELOPMENT OF SOCIETY. The early life of man and the customs and culture achievements characteristic of the ruder levels

of social life are studied the first half year. Attention is directed upon the physiographic, the social and the psychological factors which shape or modify community development and the growth of culture.

Contemporary civilization in certain of its aspects is studied the second half year. The tendencies of modern civilized society, the aims which should guide, and certain outstanding problems of regulation and control are taken up in some detail. Effort is made to detect those factors and conditions upon which depend the ordered stability and the liberal life of communities and state.

Three hours. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Gifford

2. SOCIAL PSYCHOLOGY. (See Psychology 3.)
3. SOCIAL ETHICS. (See Philosophy 3.)

SPANISH

For courses in Spanish see Romance Languages.

*ZOOLOGY

*Professors Perkins, Moody, Rowell; Mrs. Loudon; Mr. Perry,
Dr. Tartar and Mr. Levine*

1. GENERAL ZOOLOGY FOR PRE-MEDICAL STUDENTS. A survey of the principal phyla of the animal kingdom, combining a study of type forms and the evolution of systems. The course also embraces a study of the fundamentals of physiology, embryology, heredity and evolution. (See Botany 1) Laboratory Fee \$4.00. *Four hours, second semester.* REQUIRED (PRE-MED.) FRESHMEN.

Professor Rowell; Dr. Tartar

2. GENERAL ZOOLOGY. The course presents a broad survey of the principles of animal biology, including structure, physiology, heredity, evolution, and acquaintance with the main types of invertebrate and vertebrate animals. Laboratory Fee \$4.00 per semester. *Four hours.* ELECTIVE TO ALL CLASSES.

Professor Moody; Mrs. Loudon; Dr. Perry

5. ANIMAL ECOLOGY. A course treating of the distribution of animals and their relations to one another and to their environment, includ-

* Students who major in Zoology are required to enroll in Zoology 111 during the Senior year. For other courses in Zoology refer to Index.

- ing association, seasonal changes and behavior. The field study is supplemented by experiments, lectures and laboratory work. Laboratory Fee \$2.50 per semester. *Three hours.* ELECTIVE. PREREQUISITE: ZOOLOGY 2 OR THE EQUIVALENT. *Dr. Tartar*
6. COMPARATIVE ANATOMY. The course is based upon dissection of vertebrate types and emphasis is placed upon the evolution of the systems of organs. The first semester is devoted to the dissection of the lower vertebrates; the second to mammalian anatomy. The comparative viewpoint is maintained throughout. Laboratory Fee \$5.00 per semester. *Four hours.* ELECTIVE.
Professor Moody; Mr. Levine
7. VERTEBRATE EMBRYOLOGY. A detailed study of the development of the frog and the chick. These forms are used as a point of departure for a discussion of the fundamental problems of development in the vertebrates. Laboratory Fee \$4.00. *Four hours, first semester.* PREREQUISITE: A COURSE IN GENERAL ZOOLOGY.
Professor Rowell; Dr. Tartar
8. ENTOMOLOGY. An elementary study of insects with special emphasis on forms of economic importance in Vermont. Recitation, laboratory and field trips. Laboratory Fee \$2.50. *Two hours, second semester.* ELECTIVE. PREREQUISITE: ZOOLOGY 2 OR 4 OR THE EQUIVALENT. (Offered in alternate years, 1943-1944.) *Dr. Tartar*
9. EVOLUTION. A lecture course with assigned readings on backgrounds of evolution, evidence of its occurrence, and theories of the methods of evolution, in light of modern research. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Moody*
10. HEREDITY. A study of the mechanism of heredity, heritable and non-heritable characteristics, the laws of human inheritance, eugenics, using material gathered by the Eugenics Survey of Vermont. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS ONLY.
Professors Perkins
12. EUGENICS. A seminar course on practical applications of the principles of race betterment, including conservation of the family, and population problems such as migration, birth rates and racial mixtures. Recommended for general cultural education and especially to those interested in any phase of social work, including teaching. *Three hours, second semester.* PREREQUISITE: ZOOLOGY 10.
Professor Perkins
14. EDUCATION BIOLOGY. This course presents a study of the foundations of general zoology, by lecture, readings and demonstrations.

Field trips acquaint the student with the habitat and methods of collecting the animals used. Part of the course consists of student projects. Zoology 2 is recommended to those intending to do further work in Zoology. Laboratory Fee \$2.00. *Two hours.* (*One lecture and one laboratory supplementing Botany 14.*) OPEN TO EDUCATION STUDENTS ONLY. *Professor Rowell*

15. **PHYSIOLOGY.** A survey course in general and comparative physiology. Consideration is given the nature of protoplasm, permeability, bio-electric phenomena, and enzyme action. Principles illustrated above are applied to studies of locomotion, nerve conduction, sense organs, digestion, respiration, and renal function in animals. Laboratory Fee \$2.50. *Three hours, second semester.* ELECTIVE PREREQUISITE: ZOOLOGY 1 OR THE EQUIVALENT. *Mr. Perry*
106. **PRIMATE ANATOMY.** A detailed dissection of the Rhesus monkey. Recommended to candidates for Senior Honors in Zoology. Laboratory Fee announced each year. *Two hours.* ELECTIVE BY PERMISSION. PREREQUISITE: ZOOLOGY 6 OR ITS EQUIVALENT. *Professor Moody*
111. **SEMINAR.** Papers and discussion on the more important topics in zoological research. *One hour.* REQUIRED OF ALL GRADUATE AND SENIOR STUDENTS MAJORING IN ZOOLOGY.

The College of Engineering

CIVIL ENGINEERING

Dean Eckbard, Professors Puffer, Butterfield and Aldrich

10. **ENGINEERING MATERIALS.** A descriptive course, covering the making, shaping, treating and properties of iron and steels; non-ferrous metals and alloys; Portland and other cements, concrete, clay products, wood and other materials used by engineers. Lectures and demonstrations. *Two hours, second semester (ENG.) FRESHMEN.* *Professor Puffer*
20. **SURVEYING.** By lectures, recitations and field work this course covers the theory, construction, use and adjustments of instruments; the theory of land surveying and leveling; methods of computing areas; the elements of city and topographic surveying. *Five hours, first semester (C. E.) SOPHOMORES.* *Professor Aldrich*

21. ROUTE SURVEYING. A course dealing with reconnaissance, preliminary location, construction and maintenance surveys for railroads, highways, pipe lines, transmission lines, canals; the theory of simple, compound, reverse and vertical curves and the spiral easement; string-lining of curves; theory and methods of computing earth-work. The instruction includes lectures, recitations and problem work. *Three hours, second semester (C. E.) SOPHOMORES.*
Professor Aldrich
22. ENGINEERING CAMP. Field practice in land and topographic surveying, leveling, triangulation and base-line measurement. Camp Fee \$15.00. *Four weeks at close of second college year; two semester hours credit (C. E.).*
Professors Puffer, Aldrich and Mr. Lynde
30. GRAPHIC STATICS. The determination of the dead and live load stresses in roof and bridge trusses by means of the application of the equilibrium polygon. *Three hours, first semester (C. E.) JUNIORS.*
Dean Eckbard
31. BRIDGE STRESSES. The analytical determination of stresses in simple framed structures under dead and live loads; the theories of deflection and least work; the history of truss development; numerous problems exemplifying the theory. *Three hours, second semester (C. E.) JUNIORS.*
Dean Eckbard
32. REINFORCED CONCRETE. The theory and design of reinforced concrete structures, the theories of beam flexure, the derivation of formulas and the design of slabs, girders, columns and special structures of reinforced concrete. *Two hours, second semester (C. E.) JUNIORS.*
Professor Aldrich
33. MAPPING. Computation and plotting of the work done at Engineering camp. *Two hours, first semester (C. E.) JUNIORS.*
Professor Aldrich
34. ENGINEERING CAMP. Field practice in railroad and highway surveying. Camp Fee \$15.00. *Four weeks at close of third college year (C. E.). Two semester hours credit.*
Professors Puffer and Aldrich
35. GEODESY. A course in practical astronomy, including the derivation of the fundamental formulas of spherical trigonometry and their applications to the celestial sphere. Emphasis is placed on the determination of latitude, time and azimuth as computed from field observations made with the sextant and alt-azimuth. *Three hours, first semester. ELECTIVE TO STUDENTS HAVING CREDIT IN PLANE TRIGONOMETRY.*
Professor Butterfield

36. GEODESY. A course in the theory and field work of triangulation, trigonometric and precise leveling, base line measurements and computations. *Three hours, second semester.* ELECTIVE (C. E.) JUNIORS AND SENIORS. PREREQUISITE: PLANE TRIGONOMETRY.
Professor Butterfield
37. SURVEYING. A practical course in the care, use, and adjustments of surveying instruments with field work, computations, and recitations. *Two hours, first semester.* ELECTIVE (M. E. AND E. E.) JUNIORS AND SENIORS. (Not given for less than five students.)
Professor Aldrich
38. RAILROAD ENGINEERING. A study of track and other railroad structures, signaling, yards and terminals, the locomotive, train resistance and operation, including the economic theory of railroad location, construction and operation. *Two hours, second semester.* ELECTIVE, JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
Professor Aldrich
40. BRIDGE DESIGN. The design of a roof truss, plate girder and railroad truss bridge; the making of stress sheets, order and shipping bills, estimates of weight and shop drawings of the structures designed. Special attention is given to those points in manufacture, shop work and shipment which have a bearing on the economical design. The methods used conform to the best modern practice. A careful study is made of standard specifications. *Three hours, first and second semester* (C. E.) SENIORS.
Dean Eckhard
41. MASONRY CONSTRUCTION. The design of dams, retaining walls, concrete bridges and other masonry structures by graphical and analytical methods. The instruction is given by lectures and drafting room work. *Three hours, second semester* (C. E.) SENIORS. PREREQUISITE: C. E. 32.
Professor Puffer
42. ENGINEERING CONSTRUCTION. A course dealing with the foundations of structures; timber, concrete and steel piles; cofferdams, caissons and piers; footings, grillages and underpinning; bearing power of soils; concluding with a study of methods of tunneling in various materials. *Two hours, second semester* (C. E.) SENIORS.
Professor Puffer
43. CONTRACTS AND ENGINEERING RELATIONS. The business and professional relations of the engineer, together with the study of engineering contracts and specifications, and the laws relating to their writing, interpretation and enforcement. *Two hours, first semester* (ENG.) SENIORS.
Professor Puffer

44. HIGHWAY ENGINEERING. A study of the general principles of design, construction and maintenance of modern types of highways and street pavements, including methods of highway administration and finance. *Three hours, second semester* (C. E.) SENIORS.
Professor Aldrich
45. SANITARY ENGINEERING. A study of water supplies; methods of collection, storage, purification and distribution of water; relation of disease to water supply; examination of water; construction, operation and maintenance of water works. *Three hours, first semester* (C. E.) SENIORS.
Professor Puffer
46. SANITARY ENGINEERING. A study of the methods of design, construction and operation of sewer systems and sewage treatment plants; their relation to sanitation and public health; the final disposal of sewage products and other wastes. *Three hours, second semester* (C. E.) SENIORS.
Professor Puffer
47. HYDRAULICS. A study of pressure of liquids on submerged surfaces; stresses in pipes; stability of floating bodies; flow through orifices, tubes, pipes and over weirs; flow in conduits, canals and natural streams; meters and water measurement; hydrodynamics and hydraulic machinery. *Three hours, first semester* (ENG.) SENIORS.
Professor Puffer
48. HYDRAULICS LABORATORY. An experimental and field course in hydraulic measurements, including stream flow; tests of meters, weirs and orifices; friction loss in pipes; tests of pumps, water wheels and other hydraulic machinery. Laboratory Fee \$2.50. *One hour, first semester* (ENG.) SENIORS.
Professor Aldrich
49. MATERIALS LABORATORY. Testing of Portland cement, aggregates, concrete, wood and steel; elementary tests of soils. Laboratory Fee \$5.00. *Two hours, second semester* (C. E.) SENIORS.
Professor Aldrich
130. HIGHWAY TRAFFIC ENGINEERING. Causes of congestion; causes of accidents; methods of relieving congestion and reducing accidents; regulation of moving traffic; regulation of parking; regulation of pedestrians; traffic signs and signals; municipal traffic codes; traffic bureaus; application of engineering, enforcement, and education to the traffic problem. *Two hours, second semester*. ELECTIVE JUNIORS AND SENIORS. (Offered in alternate years.)
Professor Aldrich
140. WATER POWER ENGINEERING. The study of precipitation and runoff; stream flow and storage, and their effect on power development;

theory of the water wheel; power plant design and the valuation of water power. The class visits operating power plants. *Three hours, first semester.* PREREQUISITE: C. E. 47. ELECTIVE (ENG.) SENIORS. *Professor Puffer*

141. ADVANCED GEODESY. A study of the theory of least squares and problems of adjustment of observations, including position computations, and the derivation of geodetic formulas. *Three hours.* ELECTIVE (C. E.) SENIORS. *Professor Butterfield*

ELECTRICAL ENGINEERING

Professors McKee, Buchanan, Williams and Shorey

20. ELEMENTS OF ELECTRICAL ENGINEERING. A study of the laws of electric and magnetic circuits and their application to Electrical Engineering. *Five hours, first semester* (E. E.) SOPHOMORES. PREREQUISITE: CREDIT OR ENROLLMENT IN MATHEMATICS-MECHANICS 21.
21. DIRECT CURRENT MACHINES. A course presenting the characteristics of direct current machines. *Two hours, second semester* (E. E.) SOPHOMORES. PREREQUISITE: E. E. 20.
30. ELECTRONICS. A study of the theory, characteristics and engineering application of electron tubes. *Three hours, second semester* (E. E.) JUNIORS. PREREQUISITES: PHYSICS 1 AND CREDIT OR ENROLLMENT IN E. E. 35 OR CREDIT IN E. E. 37.
31. DIRECT CURRENT MACHINES. A continuation of E. E. 21. *Four hours, first semester* (E. E.) JUNIORS. PREREQUISITE: E. E. 21.
32. ELECTRICAL LABORATORY. A course in direct current measurements and circuits and experimental determination of the characteristics of direct current machines. Laboratory Fee \$5.00. *Two hours, first semester* (E. E.) JUNIORS. PREREQUISITE: CREDIT OR ENROLLMENT IN E. E. 31.
33. ELECTRICAL LABORATORY. A continuation of E. E. 32 and including the experimental determination of the properties of alternating current circuits. Laboratory Fee \$5.00. *Two hours, second semester* (E. E.) JUNIORS. PREREQUISITES: E. E. 32 AND CREDIT OR ENROLLMENT IN E. E. 35.
34. ALTERNATING CURRENT THEORY. The mathematical and graphical analysis of current and voltage relationships in single phase and poly-phase circuits. *Three hours, first semester* (E. E.) JUNIORS. PRE-

REQUISITES: PHYSICS 1, MATHEMATICS-MECHANICS 21-22 AND E. E. 20.

35. ALTERNATING CURRENT THEORY. A continuation of E. E. 34. *Three hours, second semester* (E. E.) JUNIORS. PREREQUISITE: E. E. 34.
36. DIRECT CURRENT CIRCUITS AND MACHINES. The laws of electric and magnetic circuits and the characteristics of direct current machines. Laboratory Fee \$2.50. *Four hours, first semester* (C. E. AND M. E.) JUNIORS. PREREQUISITES: MATHEMATICS-MECHANICS 21-22 AND PHYSICS 1.
37. ALTERNATING CURRENT CIRCUITS AND MACHINES. The laws of single phase and polyphase alternating current circuits and the characteristics of alternating current machines. Laboratory Fee \$2.50. *Four hours, second semester* (C. E. AND M. E.) JUNIORS. PREREQUISITE: E. E. 36.
40. ELECTRONICS LABORATORY. The experimental determination of the characteristics of electron tubes and a study of the circuits commonly used in the application of electronic devices. Laboratory Fee \$2.50. *One hour, first semester* (E. E.) SENIORS. PREREQUISITE: E. E. 30.
41. POWER TRANSMISSION. A study of the design, construction and operation of transmission and distribution systems. *Three hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
42. ELECTRICAL LABORATORY. A course in the experimental determination of the characteristics of alternating current circuits and machines. Laboratory Fee \$5.00. *Two hours, first semester* (E. E.) SENIORS. PREREQUISITES: E. E. 35 AND CREDIT OR ENROLLMENT IN E. E. 44.
43. ELECTRICAL LABORATORY. A continuation of E. E. 42. Laboratory Fee \$5.00. *Two hours, second semester* (E. E.) SENIORS. PREREQUISITES: E. E. 42 AND CREDIT OR ENROLLMENT IN E. E. 45.
44. ALTERNATING CURRENT MACHINES. A study of the principles of design, construction and operation of alternating current machines. *Three hours, first semester* (E. E.) SENIORS. PREREQUISITES: E. E. 31 AND 35.
45. ALTERNATING CURRENT MACHINES. A continuation of E. E. 44. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 44.
46. WIRE COMMUNICATION. Network theory and the fundamental principles of wire communication systems. Laboratory Fee \$2.50. *Three hours, first semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.

47. WIRE COMMUNICATION. A continuation of E. E. 46. Laboratory Fee \$2.50. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 46.
48. RADIO COMMUNICATION. The fundamental principles of radio communication systems. Laboratory Fee \$2.50. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
49. POWER STATIONS. A course presenting the Electrical Engineering features of steam, water and oil engine power plants. *Three hours, second semester*, SENIORS, ELECTIVE. PREREQUISITES: ENROLLMENT IN E. E. 45 OR CREDIT IN E. E. 37.
140. TRANSIENT PHENOMENA. A mathematical development of common voltage and current transients with experimental check by means of the oscillograph. Laboratory Fee \$2.50. *Three hours, second semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.
141. SPECIAL TOPICS. Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines or systems. *Three hours, first semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.
142. SPECIAL TOPICS. A continuation of E. E. 141. *Three hours, second semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.
143. ADVANCED COMMUNICATION ENGINEERING. A study of the theory of circuits and networks used for communication systems. Laboratory Fee \$2.50. *Three hours, second semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 46.

GENERAL ENGINEERING

1. ENGINEERING. An introduction to the practice of engineering by lectures, demonstrations, inspection trips or problems. *One hour, first semester*. REQUIRED OF ALL FRESHMAN ENGINEERS.
Professors McKee and Puffer
2. ENGINEERING ECONOMICS. An introductory course in the principles of economics and business organization adapted to the training of engineers. *Three hours* (ENG.) JUNIORS. *W. W. Lent*

*MATHEMATICS AND MECHANICS

Professors Butterfield, Bullard and Millington

- A. INTERMEDIATE ALGEBRA. A review course for those not sufficiently prepared for the engineering mathematics of the freshman year. No Fee. NO DEGREE CREDIT.
- B. SOLID GEOMETRY. A course required of those who do not present solid geometry as an entrance credit. Fee \$10.00. *Two hours, first semester* (ENG.) FRESHMEN. NO DEGREE CREDIT.
Professor Millington
11. AND 12. ADVANCED ALGEBRA. The topics studied are theory of equations, determinants, permutations and combinations, probability and chance; imaginary and complex numbers; logarithmic and exponential equations, interest and annuities.
†PLANE TRIGONOMETRY. The topics studied are logarithms, development and use of fundamental formulas of analytical trigonometry, solution of the right and oblique plane triangles and the practical applications of trigonometry. *Five hours, first semester* (ENG.) FRESHMEN. *Professors Butterfield and Millington*
13. PLANE ANALYTICAL GEOMETRY. The topics studied are systems of coordinates and their transformations, rectilinear and polar equations of the straight line, the conic sections, and higher plane curves. *Four hours, second semester* (ENG.) FRESHMEN.
Professors Butterfield and Millington
21. DIFFERENTIAL CALCULUS. In Differential Calculus the topics included are rates, maxima and minima, series, expansion of functions, indeterminate forms, partial and total derivatives. The study of planes, lines and quadric surfaces in solid analytic geometry is also included. *Four hours, first semester* (ENG.) SOPHOMORES.
Professors Butterfield and Millington
22. INTEGRAL CALCULUS. In Integral Calculus the topics included are the standard forms of integration and their application to engineering and physical problems, in obtaining areas, surfaces, volumes, centroids, and moments of inertia. *Four hours, second semester* (ENG.) SOPHOMORES. *Professors Butterfield and Millington*
23. THEORETICAL MECHANICS (STATICS). The course includes a study of fundamental concepts, the resultant of a force system by graphical

* The course descriptions in this department are only incomplete outlines of the actual content.

† For course in Spherical Trigonometry, see Civil Engineering 35 (Geodesy).

and analytical methods, conditions of equilibrium and the applications to cranes, trusses and flexible cables, followed by centers of gravity and moments of inertia. *Three hours, second semester* (ENG.) SOPHOMORES. PREREQUISITE: DIFFERENTIAL CALCULUS.

Professor Bullard

31. THEORETICAL MECHANICS (KINETICS). The course is a continuation of Statics treating the equations of motion of a body under the action of a force system, the principles of work and energy, impulse and momentum. *Three hours, first semester* (ENG.) JUNIORS.
Professor Bullard
32. MECHANICS OF MATERIALS. The course includes a study of the behavior of elastic bodies, with particular attention to the beam, shaft and column, including simple stress and strain, combined stresses, the elastic curve, and strain energy. *Three hours, second semester* (ENG.) JUNIORS.
Professor Bullard
104. ADVANCED MATHEMATICS. This course is arranged to give special work in mathematics to those engineers who desire to study the application of mathematics to particular subjects as in differential equations or advanced calculus or advanced mechanics and may include advanced geodesy and the theory of least squares. *Three hours, each semester, JUNIORS AND SENIORS. ELECTIVE.*
Professors Butterfield and Bullard

MECHANICAL ENGINEERING

Professors Daasch, Sussdorff and Lucarini; Mr. Batchelder.

11. MECHANICAL DRAWING. Practice and development of proficiency in the use of drawing equipment. The work includes the use of instruments, lettering, sketching, inking, tracing and elementary projective drawing. (Three laboratory periods. No laboratory fee.) *Three hours, first semester.* REQUIRED (ENG.) FRESHMEN.
12. MECHANICAL DRAWING. Theory and application of orthographic projection, dimensioning, applications of conventions and standards, elementary detail and assembly drawings of machines and structures. (Three laboratory periods. No laboratory fee.) *Three hours, second semester.* REQUIRED (ENG.) FRESHMEN.
23. MANUFACTURING PROCESSES. A laboratory course offering practice in the simple processes in the fields of metal casting, machining, welding and forming. (Two laboratory periods.) Laboratory Fee \$5.00. *Two hours, first semester.* REQUIRED (M. E.) SOPHOMORES.

24. MANUFACTURING PROCESSES. A laboratory study of methods, jigs, fixtures, special tools and gauges with practice in their uses during manufacturing for interchangeable and progressive assembly. (Two laboratory periods.) Laboratory Fee \$5.00. *Two hours, second semester.* REQUIRED (M. E.) SOPHOMORES.
25. FUELS AND COMBUSTION. This course includes the study of the analysis of solid, liquid and gaseous fuels; the principles of the theory and practice in the combustion of fuels; and the correlation of commercial specifications with the analysis and ultimate utilization of fuels. Two lecture-recitation and one laboratory periods. *Three hours, first semester.* REQUIRED (M. E.) SOPHOMORES. PREREQUISITE: CHEMISTRY 1.
32. MACHINE DRAWING. The analysis of displacements, velocities and accelerations in machines and the application of such analysis to cams, gears and other mechanisms. Complete layouts, assembly and detail working drawings of machines. Three laboratory periods. *Three hours, second semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITE: M. E. 12.
33. SHOP PRACTICE. Advanced work in the fields of machining, wood working, welding or sheet metal fabrication according to the needs of the student. Especially adapted to those preparing for the teaching of Industrial Arts. Three laboratory periods. Laboratory Fee \$7.50. *Three hours.* REQUIRED (IND. ED.) SENIORS. ELECTIVE. PREREQUISITE: M. E. 24.
35. THERMODYNAMICS. This course is concerned with the fundamental laws of thermodynamics and their applications to the inter-conversion of thermal and mechanical forms of energy in heat engines. Three recitation periods. *Three hours, first semester.* REQUIRED (M. E. AND E. E.) JUNIORS. PREREQUISITES: PHYSICS 1 AND MATHEMATICS 21 AND 22.
36. INTERNAL COMBUSTION ENGINES. The thermodynamic and mechanical principles of the design, operation and performance of spark ignition and Diesel engines. Two recitation and one laboratory periods. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITE: M. E. 35.
38. POWER ENGINEERING. A short course in the fields of steam and internal combustion engine power. Analysis of the design, operation and performance of characteristic equipment. Two recitation and two laboratory periods. Laboratory Fee \$5.00. *Four hours, second semester.* REQUIRED (E. E.) JUNIORS. PREREQUISITE: M. E. 35.

39. INDUSTRIAL METALLURGY. The important ferrous and non-ferrous metals are studied. Chemical, physical and metallographic characteristics are correlated with the theory and practice of the industrial metallurgical processes. Two recitation and one laboratory periods. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITES: CHEMISTRY 1 AND PHYSICS 1.
41. MACHINE STRESS ANALYSIS. This course includes the study and use of the mathematical and graphical methods suited to the analysis and determination of static and dynamic stresses in machine parts. Three recitation and one laboratory periods. No laboratory fee. *Four hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITES: M. E. 32 AND MATHEMATICS-MECHANICS 32.
42. MACHINE DESIGN. A study of the design of the elements of machines. Three recitation and one laboratory periods. No laboratory fee. *Four hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 41.
43. INDUSTRIAL ENGINEERING. This course is a study of the principles of management and their applications to industrial organizations and industrial operations. Two recitation and one laboratory periods. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 24.
44. FACTORY PLANNING. The systematic analysis of the requirements of a factory for a specific purpose. Work includes the consideration of such items as location, plant design, equipment requirements, general layout and production planning. One recitation and two laboratory periods. No laboratory fee. *Three hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 43.
45. AIR CONDITIONING. The applications of the fundamental principles of thermodynamics in a study of the design and performance of air conditioning equipment and systems for residences, public buildings and industrial plants. One recitation and two laboratory periods. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 35.
47. STEAM POWER PLANTS. The study of the thermodynamic and mechanical principles of the design, installation, operation and performance of steam power plant equipments. Two recitation and two laboratory periods. Laboratory Fee \$5.00. *Four hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 35.

48. AERODYNAMICS. The course includes the study of the application of the principles of the mechanics of fluids to the airplane, to fan and propeller characteristics and to the flow of gases and vapors. Two recitation and one laboratory periods. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (M. E.) SENIORS. PRE-REQUISITES: C. E. 47 AND 48.
49. SPECIAL PROBLEMS. A study and investigation on a topic or problem of special interest to the student. Formal submission of results in thesis form required. Problems must be approved by the Head of the Department before election of the course. *Meetings as arranged, two or three hours. First and second semesters.* ELECTIVE (M. E.) SENIORS BY PERMISSION.
50. SEMINAR. Meetings are devoted to discussions of the Mechanical Engineering Profession, the ethics, responsibilities and status of members of the Profession, and timely activities of present-day practice. Current issues of pertinent publications are used as collateral reading and as guides in the study and discussion of contemporary progress in the field. *Two hours, second semester.* REQUIRED (M. E.) SENIORS.
101. ADVANCED HEAT ENGINES. This is an advanced study in theoretical thermodynamics with applications in specific types of heat engines according to the interests of the students. *Three to six hours, first semester, second semester.*
102. VIBRATIONS IN MACHINES. An advanced course in the field of machine design with special emphasis on problems of vibrations. Topics considered include causes of vibrations, methods of study of vibratory motion, determination of vibration stresses, and methods of balancing and damping. *Three to six hours, first semester, second semester.*
103. RESEARCH. The work includes selection of a topic, reading, development of research program and submission of satisfactory thesis. *Three to six hours, first semester, second semester.*

The College of Agriculture

AGRICULTURE

AGRONOMY

Professor Miller

1. SOILS AND SOIL MANAGEMENT. A study of the physiography, physics, chemistry and biology of soils. Lectures, recitations, supplementary reading, laboratory and field work. Laboratory Fee \$2.50 per semester. *Three hours.* REQUIRED (AG.) JUNIORS.
 2. FIELD CROPS. A course dealing with hay and pasture grasses, legumes, forage, cereal, fiber, money and special crops; market grades, judging and identification. Lectures, recitations, supplementary reading, laboratory and field work. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (AG.) SOPHOMORES.
 3. ADVANCED FIELD CROPS. Field inspections of farms practicing improved pasture and crop programs, study of questions received from farmers relative to crops, crop sequences, rotation and field plot technique. Thesis required. No Laboratory Fee. *Three hours, first semester.* REQUIRED (P. I.) JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.)
103. SPECIAL INVESTIGATION. An advanced course consisting of reference reading, field studies and laboratory. Participation in departmental seminars required. *Two or more hours.* ELECTIVE TO JUNIORS, SENIORS AND GRADUATE STUDENTS.

ANIMAL AND DAIRY HUSBANDRY

Professors Ellenberger, Herreid and Newlander; Dr. N. K. Williams; Messrs. Perisbo and Slack.

1. STOCK FEEDING. A course in the principles of animal husbandry and of animal nutrition, including roughages and concentrates, ration formulation and feeding practice. Lectures, recitations, laboratory. No Laboratory Fee. *Three hours, second semester.* REQUIRED (AG.) SOPHOMORES.

Professors Ellenberger and Newlander

3. LIVE STOCK. A course in breeds and stock judging. Lectures, recitations, scoring practice. *Two hours, first semester and three hours, second semester.* REQUIRED (AG.) SOPHOMORES.

Dr. N. K. Williams; Mr. Perisbo

5. ADVANCED STOCK JUDGING. Field work at breeding establishments with advanced study of types and strains, competitive judging, particularly of dairy cattle. *Three hours, second semester.* REQUIRED (D. P.) JUNIORS. *Mr. Perisbo*
6. DAIRY HERD MANAGEMENT. A course in herd improvement and management, emphasizing economic production, records and barn practice. Lectures, recitations, laboratory. No Laboratory Fee. *Three hours, first semester.* REQUIRED (D. P.) JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.)
7. HORSE, SHEEP AND SWINE MANAGEMENT. A course dealing with records, economic production and barn practice. Lectures, recitations, laboratory. No Laboratory Fee. *Three hours, first semester.* REQUIRED (D. P.) JUNIORS OR SENIORS. (Offered in alternate years, 1943-1944.) *Dr. N. K. Williams, Mr. Perisbo*
8. DAIRY CHEMISTRY. A study of the chemical composition of dairy products; sampling, analysis, detection of adulterations, pasteurization tests, Mojonnier test for fats and solids. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (D. M.) SOPHOMORES.
9. DAIRY BACTERIOLOGY. A study of the relation of micro-organisms to milk and milk products, methods of examination and control. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (D. M.) SOPHOMORES. *Professor Newlander; Mr. Slack*
10. DAIRY MANUFACTURES 1. A course in general dairying including the secretion, physical and chemical properties, care and handling of milk, and manufactured milk products; Babcock testing, survey of dairy science. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (AG.) FRESHMEN.
11. DAIRY MANUFACTURES 2. A study of the theory and practice of condensing and powdering of milk and of butter making. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1942-1943.)
12. DAIRY MANUFACTURES 3. A study of the principles and practice of cheese and casein manufacture. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1943-1944.)

13. DAIRY MANUFACTURES 4. A course in market milk with emphasis on sanitary production, quality control, processing and the problems of marketing. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1943-1944.)
14. DAIRY MANUFACTURES 5. A course in ice cream manufacture; ingredients, theory and practice of processing, manufacturing and distribution. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1942-1943.)
Professor Herreid; Mr. Slack
15. JUDGING DAIRY PRODUCTS. The quality criteria and market standards of dairy products; practical experience in scoring and judging. Lectures, laboratory. Laboratory Fee \$2.50. *Two hours, second semester.* REQUIRED (D. M.) JUNIORS. *Professor Newlander*
116. SPECIAL INVESTIGATION. Special advanced work, individual problems or seminars for qualified students. *Two or more hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
Professors Ellenberger, Herreid and Newlander; Dr. N. K. Williams
18. DAIRY PLANT OPERATION AND MANAGEMENT. *Credit one hour. Two weeks of supervised practice in commercial plants in early September.* REQUIRED (D. M.) JUNIORS. *Professor Herreid*

POULTRY HUSBANDRY

Mr. Granger

1. BROODING AND REARING. A course dealing with problems encountered in brooding and rearing chicks to laying age, including breed selection, chick selection, equipment, brooder management, feeding, rearing, range management, chick diseases and the marketing of broilers. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (TCH. AGR.) SOPHOMORES. ELECTIVE TO JUNIORS AND SENIORS.
2. LAYING FLOCK MANAGEMENT. A course dealing with managerial problems, including housing, feeding, watering, ventilation, use of lights, culling, marketing poultry products, and common diseases. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TCH. AGR., P. I., D. P.) JUNIORS.
3. ADVANCED POULTRY MANAGEMENT. A course covering work in fields of special interest to the students enrolled; project work under

supervision. No Laboratory Fee. *Credit, three hours per semester and offered in either or both semesters.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS. PREREQUISITES: POULTRY HUSBANDRY 1 OR 2.

AGRICULTURAL ECONOMICS

Dr. S. W. Williams

1. FARM MANAGEMENT. The principles and problems of farm organization and management with emphasis upon the factors contributing to successful business operation. Farm accounts, types of farming, efficiency factors and problems involved in building up and operating a profitable farm business. Lectures, discussions, laboratory. No Laboratory Fee. *Three hours.* REQUIRED (AG.) SENIORS.
2. MARKETING AGRICULTURAL PRODUCTS. The economic factors involved in marketing the major products of Vermont farms, particularly geography of production and interregional competition, areas of distribution, marketing agencies, methods and costs, sales and price policies, and public regulation. Lectures, discussions, laboratory. No Laboratory Fee. *Three hours, second semester.* REQUIRED (AG.) SENIORS.
3. AGRICULTURAL COOPERATION AND CREDIT. The development, legal aspects, membership relations, organization, financing and management of farmers' business associations, and the characteristics and problems of cooperative and other agencies supplying agricultural credit. Lectures, discussions, laboratory. No Laboratory Fee. *Three hours, first semester.* REQUIRED (AGL. ECON., TCH. AG.) JUNIORS AND SENIORS. (Offered in alternate years, 1943-1944.)
4. PUBLIC PROBLEMS OF AGRICULTURE. The nature and consequences of fluctuations in the prices of agricultural commodities, stabilization of the price level, government regulation of production and marketing, conservation of agricultural resources, land use, and other public questions of special interest to farmers. Lectures, discussions, laboratory. No Laboratory Fee. *Three hours, first semester.* REQUIRED (AGL. ECON.) JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.)

AGRICULTURAL EDUCATION

*Professors Martin, Douglass, Holbrook, and Nelle Adams;
Messrs. Granger and Park**

1. PRINCIPLES OF EDUCATION. (See Education 1.)
Professors Holbrook and Adams
2. TEACHING AGRICULTURE 1. A basic course in methods, designed to give prospective agriculture teachers opportunity to survey the field, study their personal fitness for a teaching career, and gain preparation necessary for doing observation and practice teaching at an early date. *Two hours, second semester.* REQUIRED (TCH. AG.) JUNIORS.
3. TEACHING AGRICULTURE 2. A supplementary course in methods, continuing the work of Agricultural Education 2, and giving special attention to the philosophy and psychology underlying agriculture teaching. The units of study include course construction, lesson planning and job analysis. *Two hours, first semester.* REQUIRED (TCH. AG.) SENIORS.
4. TEACHING AGRICULTURE 3. A course in methods related to part-time and evening-school teaching and advising Future Farmer of America chapters. Part-time and evening-school units include locating class members, determining needs of out-of-school youth, planning programs, selecting effective teaching methods. Future Farmer units include study of purposes, chapter organization, program building, conduct of meetings. *Two hours, second semester.* REQUIRED (TCH. AG.) SENIORS.
5. TEACHING AGRICULTURE 4. A course in observation and student teaching of high school classes under supervision. Practice Fee, \$10.00 (returnable under certain conditions). *Three weeks during either semester. Three credit hours.* REQUIRED (TCH. AG.).
Professor Martin; Mr. Park
10. TEACHING OF FARM SHOP. A special methods course including objectives, course construction, lesson planning, shop management, selection and arrangement of shop equipment, and instruction in wood, concrete, metal, leather working skills. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (TCH. AG.) SENIORS.
Mr. Granger

* Absent on military leave.

AGRICULTURAL ENGINEERING

Mr. Granger

1. FARM MECHANICS. Practical training in farm engineering and mechanics including gasoline engines and power transmission, forge work, farm structures and concrete, leveling and drainage, farm water supply and sewage disposal; current problems in general agricultural engineering. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TCH. AG., P. I., D. P., D. M.) SENIORS.
2. ELECTRICITY IN THE HOME AND ON THE FARM. A course of practical training in the use of electricity on the farm and in the farm home; wiring, motors, farm appliances, safe use of electrical energy. *Three hours, first semester.* Laboratory Fee, \$2.50. REQUIRED (TCH. AG.) JUNIORS OR SENIORS. (Offered in alternate years, 1942-1943.)

AGRICULTURAL PHILOSOPHY

1. SOCIAL PHILOSOPHY OF AMERICAN AGRICULTURE. A study of the social philosophies which have animated American agriculture during its history. The course attempts: 1) a preliminary survey of European backgrounds; 2) a study of the history of American thought in respect to agriculture in this country; 3) an analysis of the more important agricultural problems of today in the light of American democratic thought. *Three hours, second semester.* REQUIRED (AG.) SENIORS. *Professor Dykhuizen*

*BOTANY

Professors Burns and Lutman; Drs. Marvin and Thomson

3. GENERAL BOTANY. A study of the morphology, anatomy, physiology and classification of higher plants. Lectures, recitations, laboratory. Laboratory Fee \$2.50 per semester. *Three hours (AG.)* FRESHMEN. *Dr. Marvin*
4. PLANT PHYSIOLOGY. An experimental study of the nutrition of higher plants including problems of irritability and response. Lectures, recitations, related readings, laboratory, field and greenhouse

* For other courses in Botany refer to Index.

work. Laboratory Fee \$2.50 per semester. *Three hours.* REQUIRED (P. I.) SOPHOMORES. PREREQUISITE: BOTANY 2 OR 3.

Professor Burns

9. ECOLOGY. A study of the physiological factors of habitats and their effect in plant structure and distribution. Lectures, field work. No Laboratory Fee. *Three hours, second semester.*
Professor Burns
10. PLANT PATHOLOGY. A study of the healthy plant, and the conditions producing disease. Insect-produced diseases, bacteria, and fungi, fungicides and their action. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (P. I.) JUNIORS AND SENIORS. ELECTIVE TO OTHERS.
11. GENERAL MICROBIOLOGY. A study of bacteria in soil, water and air; morphology classification and requirements. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Four hours, first semester.* REQUIRED (AG.) SOPHOMORES.
Professor Lutman
13. HOUSEHOLD MICROBIOLOGY. A study of bacteria, yeasts and molds in relation to home sanitation and to food preservation. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS.
Dr. Thomson
108. CURRENT LITERATURE IN BOTANY. A review of important papers and books. *One hour.* ELECTIVE TO JUNIORS AND SENIORS.
109. SPECIAL INVESTIGATION. Laboratory Fee \$5.00 per semester. *Number of hours to be arranged.* ELECTIVE TO SENIORS BY PERMISSION.
Professors Burns and Lutman

*CHEMISTRY

Professors Willmarth and †Crooks; Miss Brown and Mr. Purchase

15. AGRICULTURAL CHEMISTRY. A study of fundamentals of organic chemistry in special relation to agriculture. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (AG.) SOPHOMORES.
19. OUTLINES OF ORGANIC CHEMISTRY. Introduction to the principal classes of organic compounds with special emphasis on the composition of foods and their related groups. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Five hours, second semester.* REQUIRED (H. E.) FRESHMEN.
Professor Willmarth

* For other courses in Chemistry refer to Index.

† Absent on military leave 1940-41.

20. CHEMISTRY OF FOODS. A general discussion of foodstuffs with chemical analyses of milk, edible fats and oils, carbohydrate foods, proteins, and tests for preservations and adulterants. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Three hours, second semester.* REQUIRED (H. EC. ED. NUTR.) SOPHOMORES \$5.00.
Professor Willmarth
22. GENERAL INORGANIC CHEMISTRY. A course in general inorganic chemistry, with a brief introduction to organic compounds. The teaching is related to professional preparation in Home Economics. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Five hours, first semester.* REQUIRED (H. E.) FRESHMEN.
Professor Willmarth; Miss Brown
23. GENERAL INORGANIC CHEMISTRY. An introductory course in Inorganic Chemistry with special emphasis to its relation to agriculture. Lectures, recitations, laboratory. Laboratory Fee \$7.50 per semester. *Four hours.* REQUIRED (AG.) FRESHMEN.
Messrs. Lucarini and Purchase
24. BIOCHEMISTRY. The elements of biochemistry including the chemistry of digestion and a study of the bile and other digestive fluids. Qualitative and quantitative analyses of blood and urine and determination of hydrogen ion concentration. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Three hours, second semester.* REQUIRED (NUTR.) SOPHOMORES.
Professor Willmarth

*FORESTRY

Professor Adams

2. WOODLOT FORESTRY. The theory and practice of silviculture, nursery management, natural and artificial regeneration, and the identification and classification of economic woods. Lectures, text assignments, field work. *Three hours.* REQUIRED (TCH. AG., P. I., D. P., AGL. ECON.) JUNIORS.
3. MENSURATION AND WOODLOT MANAGEMENT. The principles and practices in forest land survey and timber estimating, including a study of growth and yield. Principles of woodland management and finance. Lectures, text, field work. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.

* For other courses in Forestry refer to Index.

7. BIOLOGICAL STATISTICS. The application of the statistical method to the analysis of biological data with special reference to agriculture and forestry, including methods of sampling and testing samples, the application of statistical constants and the interpretation of data. Lectures and text assignments. *Three hours, second semester.* ELECTIVE TO JUNIORS, SENIORS AND GRADUATE STUDENTS.

GENETICS

Professors Cummings and Dr. N. K. Williams

1. PLANT AND ANIMAL IMPROVEMENT. A course of studies in the principles of plant and animal improvement, origin of species and varieties, heredity, evolution, selection, hybridization, sterility and fecundity and the principles of breeding. Lectures, text and reference readings, recitations, laboratory. Laboratory Fee \$2.00. *Three hours, second semester.* REQUIRED (P. I., D. P.) JUNIORS.

†HOME ECONOMICS

Professors King, Bailey, Burwash, LeBaron, Doughty and Holbrook; Dr. Emelie Perkins; Misses Rawson and Brown, Mrs. Morrill

GENERAL HOME ECONOMICS

10. ORIENTATION. A study of the problems of adjustment to college life and a survey of professional opportunities in Home Economics. *One hour.* REQUIRED (H. E.) FRESHMEN. *Professor King*

CLOTHING AND TEXTILES

10. CLOTHING SELECTION. A study of the artistic, psychological and economic problems involved in the selection of clothing. *Three hours, second semester.* REQUIRED (H. E.) FRESHMEN. *Professor Burwash*

11. APPLIED DESIGN. Development of individual good taste and self-expression through the study and practical application of the principles of design and color. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. E.) FRESHMEN.

20. CLOTHING 1. A study of garment construction through the use of commercial patterns, of dress design and selection for the individual and of care and repair of clothing. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (GENL., ED., TEX.) SOPHOMORES. *Miss Rawson*

† For other courses and the curriculum in Home Economics refer to Index.

21. TEXTILES. A study of standard fabrics, including fiber content, construction, design and finishes; special emphasis on consumer-buyer problems. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (GENL., ED., TEX.) SOPHOMORES.
30. CLOTHING 2. A study of commercial patterns and flat pattern designing; fundamental principles of dress selection and construction applied to wool and silk problems. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (GENL., ED., TEX.) JUNIORS.
31. HISTORY OF COSTUME. A study of costume from ancient times to the present day. *Two hours, first semester.* REQUIRED (GENL., TEX.) JUNIORS.
32. TEXTILE ANALYSIS. Physical, microscopical and chemical analysis of textile fabrics; evaluation of testing materials; textile legislation. Laboratory Fee \$2.50. *Two hours, first semester.* REQUIRED (TEX.) JUNIORS.
40. ADVANCED CLOTHING PROBLEMS. A study of the principles of draping and tailoring as a means of developing originality; of working with fabrics on a model and of studying special dress finishes. Remodeling and ready-to-wear alteration problems. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TEX.) SENIORS.
Professor Burwash
41. CHILDREN'S CLOTHING. A study of fabrics, designs and the construction of infants' and children's clothing. Laboratory Fee \$2.50. *Two hours, second semester.* REQUIRED (GENL.) SENIORS.
42. COSTUME DESIGN. A study of the relation of color, principles of design and texture to dress design. Designs may be worked out in cloth, pencil or color. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (TEX.) SENIORS.
43. RELATED ARTS. A study of the development of sensitivity to beauty in everyday living, including art experiences in dress, home, and school laboratory furnishings and arrangements, and an appreciation of the decorative arts. *Three hours, first semester.* REQUIRED (GENL., TEX.) SENIORS.
Miss Rawson

FAMILY RELATIONSHIPS

40. CHILD CARE. A study of the care of the child from pre-natal life through infancy and childhood. *Two hours, second semester.* REQUIRED (GENL., ED.) SENIORS.
Dr. Perkins
41. CHILD DEVELOPMENT. A study of the mental, emotional and social development of the child and methods of guiding this development;

opportunity for observation and participation with children of pre-school age. *Three hours, second semester.* REQUIRED (GENL., ED.) SENIORS. *Professor Holbrook*

42. FAMILY RELATIONSHIPS. A study of the origin, development, structure, and functioning of the family in relation to present-day home and social problems. *Three hours, first semester.* REQUIRED (GENL., ED.) SENIORS. *Mrs. Morrill*

HOME AND INSTITUTIONAL MANAGEMENT

20. HOUSING AND EQUIPMENT. A study of the problems involved in achieving adequate housing and of problems in the construction, selection, use, care and repair of equipment. *Three hours, first semester.* REQUIRED (H. E.) SOPHOMORES. *Professor Doughty*
21. HOME PLANNING AND FURNISHING. An analysis of floor plans and the study of the selection and arrangement of furnishings. *Three hours, second semester.* REQUIRED (H. E.) SOPHOMORES. *Professor Burwash*
30. HOME MANAGEMENT. A study of the problems involved in organizing and controlling the expenditure of time, energy, and money used in managing a home. *Three hours, second semester.* REQUIRED (H. E.) JUNIORS. *Professor Doughty*
40. INSTITUTION MANAGEMENT. A study of the problems involved in the organization and management of different types of institutions. *Three hours, second semester.* REQUIRED (NUTR.) SENIORS.
41. HOME MANAGEMENT PRACTICE. Acquisition of experience in certain phases of home making through living in the Home Management House for a five or six weeks' period. *Three hours, first or second semester.* REQUIRED (H. E.) SENIORS. *Professor Doughty*

HOME ECONOMICS EDUCATION

40. HOME ECONOMICS TEACHING. A course in modern educational principles and methods applied to junior and senior high schools, including evaluation of objectives, selection and organization of subject matter, methods of presentation, and special problems of departmental administration. *Two hours, first semester; one hour, second semester.* REQUIRED (ED.) SENIORS. *Professor LeBaron*
41. STUDENT TEACHING. A practical course in observation and student teaching in junior and senior high schools, including discussions and individual conferences on teaching problems. Sectioned in both semesters. Practice Fee \$10.00 (returnable under certain conditions). *Three hours.* REQUIRED (ED.) SENIORS. *Professor LeBaron; Miss Brown*

FOOD AND NUTRITION

20. FOOD PREPARATION. A study of the scientific principles and fundamental processes underlying food preparation with practical applications. Laboratory Fee, \$5.00 per semester. *Three hours.* REQUIRED (H. E.) SOPHOMORES. *Professor King*
30. MEAL PLANNING AND SERVICE. A laboratory course in the preservation, and in the planning, buying, preparing and serving of food. Laboratory Fee, \$5.00. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS. *Professor Bailey*
31. FOOD ECONOMICS. A study of the recent trends in food processing, of the agencies controlling production and marketing of foods and of consumer buying problems. *Two hours, first semester.* REQUIRED (GENL., NUTR.) JUNIORS.
32. DIET AND NUTRITION. A study of the principles of normal nutrition and practical feeding problems of the individual. Laboratory Fee, \$5.00. *Five hours, second semester.* REQUIRED (GENL., ED., NUTR.) JUNIORS.
40. EXPERIMENTAL FOOD PREPARATION. A study of methods and techniques used in experimental work in foods. Independent laboratory work in the solving of problems in food preparation. Laboratory Fee, \$5.00. *Three hours, second semester.* REQUIRED (NUTR.) SENIORS. *Professor King*
41. QUANTITY FOOD PREPARATION. A study of the principles involved in the selection, purchase, storage, and preparation of large quantities of food for service in institutions. Laboratory Fee, \$5.00. *Three hours, first semester.* REQUIRED (NUTR.) SENIORS.
42. FOOD DEMONSTRATIONS. A study of the purposes and techniques of demonstrations in relation to food preparation and nutrition, with applications to teaching, extension and business. Laboratory Fee \$2.50. *One hour, first semester.* REQUIRED (NUTR.) SENIORS.
43. CHILD NUTRITION. A study of the indices of good nutrition, the principles of infant feeding, the nutritional requirements of different age levels, and methods of development of good food habits. *Three hours, first semester.* REQUIRED (GENL.) SENIORS.
44. DIET IN DISEASE. A study of the dietetic treatment of impaired digestive and metabolic conditions. *Three hours, first semester.* REQUIRED (NUTR.) SENIORS.
45. READINGS ON NUTRITION. A critical survey of the literature on recent developments in nutrition. *Two hours, second semester.* ELECTIVE, SENIORS. *Professor Bailey*

HORTICULTURE

Professor Cummings

1. ELEMENTS OF POMOLOGY. An introductory course in orchard fruits and fruit plants, including science and practice, products and by-products, commercial aspects and extension problems. Lectures, recitations, laboratory, orchard practice. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (AG.) FRESHMEN.
2. ADVANCED POMOLOGY. A study of fruits not included in the elementary course with consideration of problems, research methods, investigational literature and teaching methods. Lectures, related readings, laboratory, field work. Laboratory Fee \$2.50 per semester. *Three hours, first semester.* REQUIRED (P. I.) JUNIORS OR SENIORS. (Offered in alternate years, 1943-1944.)
4. FLORICULTURE AND LANDSCAPE GARDENING. A course in the principles and practice of the culture of ornamental flowering plants with consideration of general, commercial and systematic problems. The course includes an outline of landscape designing and planning exercises for the improvement of home and school grounds. Lectures, text and reference reading assignments, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (P. I.) JUNIORS OR SENIORS. (Offered in alternate years, 1942-1943.)
5. GREENHOUSE MANAGEMENT. A course in the methods and problems of growing fruits, flowers and vegetables under glass with special reference to the commercial problems. Lectures, text and related reading assignments, laboratory work. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (P. I.) JUNIORS OR SENIORS. (Offered alternate years, 1942-1943.)
106. SPECIAL INVESTIGATION. An advanced research seminar in some branch of Horticulture. *Hours to be determined.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS BY PERMISSION.

*PHYSICS

Professor Rooney

2. HOUSEHOLD PHYSICS. A study of some of the principles of physics closely related to equipment used in the home and a study of some other physical phenomena frequently encountered in nature. Lecture demonstrations will be shown for illustrating some of the principles

* For other courses in Physics refer to Index.

and the problem work will be based largely upon data obtained during these demonstrations. *Three hours, second semester.* REQUIRED (H. E.) SOPHOMORES. NOT OPEN TO OTHERS.

VETERINARY SCIENCE

Dr. L. A. Evans

2. DISEASES OF DOMESTIC ANIMALS. A study of the etiology, symptomatology and treatment of the common ailments and diseases of farm animals. Lectures, recitations and clinics. No Laboratory Fee. *Three hours, one semester.* REQUIRED (D. P.) JUNIORS AND SENIORS. (Offered in alternate years, 1942-1943.)

†ZOOLOGY

Mr. Perry and Dr. Tartar

4. GENERAL ZOOLOGY. A study of typical invertebrate and vertebrate animals, their structure, physiology, behavior, life history, and the relation of Zoology to human welfare. Laboratory Fee \$4.00. *Four hours, second semester.* REQUIRED (AG.) FRESHMEN.
Mr. Perry
8. ENTOMOLOGY. An elementary study of insects with special emphasis on forms of economic importance in Vermont. Recitations, laboratory and field trips. Laboratory Fee \$2.50. *Two hours, second semester.* REQUIRED (P. I.) JUNIORS OR SENIORS. ELECTIVE TO OTHERS. (Offered in alternate years, 1943-1944.) *Dr. Tartar*
13. PHYSIOLOGY. A course of lectures supplemented with weekly demonstrations. It is designed to acquaint the student with the fundamentals of physiological phenomena in man and other vertebrates. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS. PREREQUISITE: ZOOLOGY 3 OR ITS EQUIVALENT.
Mr. Perry

† For other courses in Zoology refer to Index.

The College of Medicine

ANATOMY

*Professors Newhall, Jordan, Stultz and Dunibue;
Dr. Antoniewicz*

FIRST YEAR

I. Gross Anatomy

This course begins with a brief introduction to the study of human anatomy in general, and osteology in particular. The plan of work then provides for dissection of the body from the standpoint of topographical and regional anatomy. As a general rule, structures to be dissected during a given period are assigned in the order in which they are encountered in the dissecting room and are studied and discussed in advance so that the student will be somewhat familiar with what he expects to discover in the laboratory. The appearances of anatomical structures as shown on X-ray films are demonstrated by Dr. Soule, Professor of Radiology.

Frequent review sessions are held and each student is given oral examinations on cadaver dissections as well as written examinations on the material presented.

An attempt is made to correlate the subject matter with other pre-clinical and clinical courses so that the student will have an opportunity to acquire a good working knowledge of gross anatomy with a minimum amount of time and effort wasted.

Four hundred and thirty-two hours (twenty-two hours per week during the first semester and ten hours per week during the second semester for eight weeks).
Drs. Newhall and Stultz

II. Histology, Embryology and Neuro-anatomy

The subject matter is organized and presented in the following parts and sequences: Histology, Embryology, Neuro-anatomy. Work is carried on by means of lectures, discussions, demonstrations, and laboratory exercises, and continues through the first year. Among the topics considered are: technic, microscopic structure of normal human cells, tissues and organs, maturation, fertilization, cleavage, implantation, the development of a body form, tissues, and organs, the development, structure and functional organization of the nervous system. An effort is made throughout to include practical applications and correlations.

The facilities of the laboratory are available to a limited number of qualified persons for research in these subjects.

Histology, one hundred and twelve hours; Embryology, thirty-two hours; Neuro-anatomy, seventy hours. *Professor Jordan, Dr. Dunibue*

SECOND YEAR

I. Cross Section and Topographical Anatomy

The laboratory is equipped with several complete sets of sections of both male and female bodies, including a permanent cross section display in glass-topped containers of one complete male body and the pelvic region of a female body.

The course includes the identification of all structures found in the cross sections, as well as a study of their relationships, supplemented by surface studies on the living body as well as by the use of X-ray films, stereoscopic views and demonstration specimens of dissected regions. On the basis of these studies, the student constructs his own textbook of cross section anatomy by labeling a complete set of prepared drawings in a published manual.

32 hours (two hours per week during the first semester). *Drs. Stultz and Newball.*

II. Anatomy: General Review

The aim of this course is to review the subject matter thoroughly so that each student will strengthen his grasp of the essentials necessary for applying his knowledge of anatomy, always striving to keep in mind the fact that a knowledge of structure is of little use except as it contributes to an understanding of function and the ability to restore abnormal function again to normal. Emphasis is placed upon the correlation of gross anatomy with microscopic and developmental anatomy.

16 hours (one hour per week during the second semester). *Dr. Newball.*

THIRD YEAR

I. Surgical Anatomy

The course in Surgical Anatomy is conducted by the Department of Surgery in close collaboration with the Department of Anatomy.

MEDICINE

*Professors Beecher, French, E. J. Rogers, Hill, Raab, Disbrow Traub, Upton, Amidon, Harwood, Vibber, Paciulli and Arnold; Drs. Ravey, Pike, Medivetsky, R. B. Davis, *Kent, Levine, Katherine McSweeney, *Maboney, Moriarty, Terrien, J. G. Thabault, Heininger, McCrea, Judge Grout.*

SECOND YEAR

I. Physical Diagnosis

One hour a week throughout the year is given to instruction in the methods of physical examination. This is followed by a two-hour session during which time the class is divided into small sections and assigned to members of the staff for demonstrations and practice in the technics outlined didactically.

II. History Taking and Elementary Clinics

Later in the year, and as a continuation of the above work, the class is further introduced to methods and findings in physical diagnosis through attendance at elementary clinics. In these clinics selected cases are demonstrated to small sections with the intention of emphasizing points of distinction between normal and abnormal findings. Principles of history taking are made an integral part of this work. A total of *ninety-six hours* for Courses I and II. *Drs. Beecher, Amidon, Harwood, and Davis*

III. Pathological Physiology Conference

A two-hour session each week during the second semester is devoted to a discussion and interpretation of the disturbed physiological and biochemical processes underlying disease. This is a correlation conference in which members of both clinical and preclinical departments take an active part. Selected cases are presented for study and discussion. *Sixty-four hours.* *The Staff*

THIRD YEAR

I. General Medicine

Two hours weekly throughout the year are assigned to a textbook survey of general medicine. Emphasis is placed on the more common disease conditions, full attention being given to their etiology, symptomatology, physical and laboratory findings. Collateral reading in current literature is required. *Sixty-four hours.*

Drs. Beecher, Amidon, Raab, and Harwood

* Absent on military leave.

II. *Clinical Lectures in Medicine*

In addition to a textbook survey of medicine, one hour weekly is given to clinical lectures on selected problems in internal medicine at which time certain cases are presented for the demonstration of illustrative disease syndromes. The recognition and significance of such findings form the basis for the discussion. *Thirty-two hours.* *Dr. Beecher and Staff*

III. *Therapeutics*

The class spends one hour weekly throughout the year in studying clinical and didactic problems in therapeutics. The work is designed and carried out with the purpose of familiarizing the student with the practical treatment of disease. Special attention is given to the treatment of the individual as an individual rather than to regimens of therapy. *Thirty-two hours.* *Dr. French*

IV. *Neurology*

The course is begun with a short review of the anatomy and physiology of the nervous system. The subject is then developed into clinical neurology by means of didactic and clinical lectures. Special attention is given to methods of discovery and the interpretation of physical findings. One hour weekly throughout the year. *Thirty-two hours.* *Dr. Upton*

V. *Medical Jurisprudence*

Lectures are given on the right to practice, contractual relations between physician and patient, the law of malpractice, legal aspects of the physician's duties under public health laws, autopsies and reports thereon, medico-legal aspects of certain crimes, expert testimony, insanity, and judicial toxicological investigations. *Sixteen hours.* *Judge Grout*

VI. *Clinico-Pathological Conferences*

These conferences, held two hours weekly throughout the year, are within the scope of the Pathological Physiology Conferences begun in the second year. In this particular phase of the work, more emphasis is placed on clinical findings. However, preclinical fundamentals are again reviewed and special attention is given to their practical applications. *Sixty-four hours.* *The Staff*

VII. *Physical Diagnosis (Ward Work)*

Small sections are assigned to the hospital wards and the Dispensary for the afternoon periods four days each week for practical work in history taking, physical examinations, and laboratory diagnosis. Suitable subjects are selected without distinguishing between medical and surgical cases. This prevents to some extent the prejudging of the diagnosis of the case

as either medical or surgical and serves to bring out the fact that many medical cases have surgical aspects and that surgical problems likewise present difficulties from a medical point of view. While the assignments are made in small sections, the individual student carries on his own work and is expected to do his clerkship in much the same manner as the fourth-year student, the only difference being that cases for the third-year men are selected and graded to the scholastic experience of third-year students. *Approximately three hundred thirty-six hours.* *The Staff*

FOURTH YEAR

1. *Clinical Clerkships*

The work of this year is done in small sections at the several teaching hospitals where the students serve as clinical clerks. Patients are assigned for history taking, physical examination and the necessary laboratory work. Demonstrations, conferences, and ward rounds are made by the Staff.

The sections in rotation are at the Mary Fletcher, Fanny Allen, Bishop DeGoesbriand and Fort Ethan Allen Hospitals, and at the Dispensary. Each student spends two weeks in residence at the Vermont Sanatorium for tuberculosis in Pittsford and two at Brandon State School. The section on City Service (domiciliary medicine) is also on service at the Dispensary during the clinic hours, and is quartered in the building. Students on this service make house calls under the supervision of the Director of the Dispensary. This is a general, twenty-four hour service, and is of two weeks' duration.

The medical staff supervises the sections in the various hospitals.

Supplementary work in clinical neurology is added while sections are on service at the Worcester City Hospital. The work includes ward rounds, conferences, and clinical clerkships on both inpatient and outpatient services. Approximately one third of the month in Worcester is devoted to this service.

Drs. Vibber and Arnold

Additional work in communicable diseases is given at the Belmont Hospital in Worcester. The students spend a month in residence there. *Dr. Spangler and Staff.*

DERMATOLOGY

THIRD YEAR

Lectures and demonstrations are given covering etiology, diagnosis, and therapy of the more common skin diseases. Use is made of the projectoscope and lantern slide illustrations. *Twelve hours.* *Dr. Traub*

Clinics are held at which students are assigned to patients in rotation for practice in history taking and method of procedure in examining patients. Emphasis is placed on the importance of being able to describe

the manifestations of skin diseases in terms of the primary and secondary lesions of the skin. Each student demonstrates his case before the clinic where possibilities regarding diagnosis are discussed. An outline of proposed therapy completes the presentation. *Thirty hours.* Dr. Traub

FOURTH YEAR

Students attend the dermatology clinics at the Mary Fletcher Hospital and are assigned in rotation to attend the dermatology clinics at the Burlington Free Dispensary, held each Wednesday afternoon. Dr. Traub

Additional clinical work in dermatology is available at the Worcester City Hospital in both the outpatient and inpatient departments.

Dr. Disbrow

MEDICAL ETHICS AND MEDICAL RELATIONSHIPS

Professors Brown, Allen, Beecher, Butties, Dalton, Durfee, Eastman, Newhall, O'Neil, Soule and Twitchell

For some years the University of Vermont College of Medicine has recognized the advisability of including in the medical curriculum the teaching of medical ethics to its undergraduates, and of clarifying for these students the position occupied by the physician in the community he serves. The need for this work and the success which has attended the steps taken so far have prompted the organization of a department to support a program of this kind.

THIRD YEAR

I. Principles of Medical Ethics and Medical Relationships

In presenting the principles of medical ethics and in discussing medical relationships, this course draws upon the historical backgrounds of medicine for the precedents of medical practice and then progresses to a discussion of the problems of modern medicine and current trends toward their solution. Full attention is paid to the problems of postgraduate medicine, beginning with internship and including a discussion of the relationships in which the physician may carry on his practice. One hour a week in the first semester. *16 hours.* Dr. Brown and Staff.

OBSTETRICS AND GYNECOLOGY

Professors Durfee, Eastman, Edgelow, D. W. James and McSweeney; Drs. *Rust, Ashton, Barney, †Glickman, Loring and Stusick

SECOND YEAR

I. *Introduction to Obstetrics*

The course includes a discussion of the anatomy of the female pelvis and reproductive organs. This is followed by a consideration of the course and mechanism of labor together with an introduction to the management of normal labor, normal puerperium and lactation. *Thirty-two hours.*

Dr. Durfee

THIRD YEAR

I. *Principles of Obstetrics*

The course begins with a discussion of the physiology of reproduction and associated endocrinology. This is followed by a study of the management of normal and abnormal pregnancies including toxemias. Further studies in abnormal labor include a consideration of operative obstetrics. Gross and microscopic pathology are presented through the cooperation of the Department of Pathology. Demonstrations are given of normal and abnormal labors on the manikin and by motion pictures. *Ninety-six hours.*

Drs. Durfee and James

Demonstration ward rounds, in sections. *Twenty-four hours.*

Dr. James

II. *Principles of Gynecology*

Gynecological diseases are considered systematically, with special attention given to the more common disorders. In discussing treatment, the principal emphasis is placed on fundamentals and less stress is laid on operative technic. *Thirty-two hours.*

Dr. McSweeney

During the second semester eight clinical lectures are given the class in the amphitheatre at the Mary Fletcher Hospital. Each student is furnished with a copy of the patient's record. The patient's history, physical findings, diagnosis and treatment are discussed. Students are allowed to participate in the examinations as far as it is practicable to do so. *Eight hours.*

Drs. Eastman and James

FOURTH YEAR

I. *Clinical Obstetrics*

Students are assigned to section work for periods of one month. During term of assignment, students attend prenatal and postnatal clinics at

* Absent on leave.

† Absent on naval leave.

the Burlington Dispensary and the Elizabeth Lund Home. Labors are attended at the Mary Fletcher Hospital, the Elizabeth Lund Home, and in the Outpatient Department. In each instance, patients are assigned to individual students who, under the supervision of a clinical instructor, act as labor clerk, taking histories, making general physical and obstetrical examinations and keeping detailed records. The labor clerk observes or assists at the actual deliveries.

Additional experience in clinical obstetrics is provided by affiliation with the Wesson Maternity Hospital in Springfield, Mass. Students are assigned for work there in sections of three for periods of one month. In each instance, the students are responsible to the Professor of Obstetrics, as well as to the administration and staff of each institution they serve.

II. *Clinical Gynecology*

Students on the Burlington obstetrical assignment also serve as clinical clerks in gynecology on the gynecological service at the Mary Fletcher Hospital and at the gynecological clinic at the Burlington Free Dispensary. The plan is very much like that of other clinical clerkships in the fourth or senior year in that they are expected to work up their cases and follow them closely throughout the time spent under treatment or in the hospital. The plan for instruction further includes service ward rounds, assistance at operations in the hospital and assistance at diagnostic procedures in the hospital and at the clinic. Ample time and opportunity are allowed for close personal instruction in all instances.

Drs. Eastman, Durfee, McSweeney and James

OPHTHALMOLOGY, OTOLARYNGOLOGY AND RHINOLOGY

Professors Twitchell, McMabon, Lerner and Lawlor

THIRD YEAR

The course includes discussion of the diseases of the lids, conjunctiva, orbit, lacrimal apparatus, cornea, uveal tract and fundus.

Lectures and practical demonstrations of the use of the ophthalmoscope, headmirror, and other instruments used in the examination of ear, nose and throat, and methods used in estimating the refraction, are given at the Mary Fletcher Hospital to half the class at a time. In this work the students are drilled in the various tests of routine examinations, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Lectures and recitations on the common diseases of the nose, throat and ear are included. Lectures and recitations. *Thirty-two hours.*

Dr. Twitchell

FOURTH YEAR

Clinical instruction is given Tuesday and Friday afternoons of each week from two to four o'clock at the Mary Fletcher Hospital outpatient clinic. Inpatient cases are also used for teaching. Treatments and methods of treatment are shown and explained.

Dr. Twitchell, and Dr. McMabon or Dr. Larner

Clinical instruction is also given Monday and Wednesday afternoons of each week from three to five-thirty o'clock at the Bishop DeGoesbriand Hospital outpatient clinics.

Dr. Lawlor

Sections assigned to the Fanny Allen and Fort Ethan Allen Hospitals participate in clinical work in this specialty.

Clinical instruction at the Burlington Free Dispensary is scheduled for Thursday afternoon of each week. Heterotropia clinics are held there every Wednesday morning.

Drs. McMabon, Larner and Lawlor

Each student of the fourth year will be required to hand in a certain number of case reports and two theses, one on a subject concerned with Ophthalmology and one with Otolaryngology. The subject is to be chosen by the student with the approval of the teaching staff of this Department.

PATHOLOGY AND BACTERIOLOGY

Professors Buttles, W. E. James, Ferguson, P. W. Butterfield and Hobbs; Dr. Rawson and Miss Heino

SECOND YEAR

I. Pathology

This course covers general pathology and special pathology of the circulatory and urinary systems and of the blood. Students are furnished with a loan collection of slides illustrative of common lesions, and these slides are supplemented by a large number of slides from autopsies or operations, for study and diagnosis. One of the chief aims of the course is to correlate the work of the preclinical and clinical years and for this purpose, during the latter part of the course, many case histories are used in conjunction with slides and gross tissues from the same cases.

During the second semester, two hours weekly are devoted to a conference conducted jointly by the Departments of Pathology, Physiology and Medicine. At these conferences selected case histories are discussed and an attempt made to explain the symptoms on a basis of changes in anatomy, physiology and chemistry.

Recitations and lectures, two hours per week. *Sixty-four hours.*

Laboratory, five hours per week, first semester, and six hours per week during second semester. *One hundred and seventy-six hours.*

Drs. Buttles, Butterfield and Hobbs

II. Bacteriology

The course includes a survey of general bacteriology, the means and methods used in bacteriology, a close study of problems of pathogenic bacteriology particularly as they pertain to the etiology, diagnosis, treatment, and prevention of infectious disease, and a study of the hypersensitivities in so far as they are concerned with the mechanisms of infection and immunity. Immunology is considered as integral to bacteriology and is not taught as a separate course.

Lectures and recitations, three hours per week first semester. Laboratory eight hours per week, first semester. *One hundred seventy-six hours.*

Dr. James and Miss Heino

III. Clinical Pathology

This course covers the usual methods of laboratory examinations as well as the interpretation of results. It embraces microscopic and chemical studies of blood, urine, spinal fluid, exudates and transudates, feces and gastric contents.

Recitations and lectures, one hour per week, second semester. *Sixteen hours.*

Laboratory, six hours per week, second semester. *Ninety-six hours.*

Dr. James and Miss Heino

THIRD YEAR

I. Pathology

This is a continuation of the course of the second year and covers special pathology. Students are supplied with a loan collection of typical slides and study many slides from operations or autopsies. Special emphasis is placed upon gross pathology as illustrated by museum preparations and material from autopsies and operating room.

Recitations, lectures and laboratory, four hours per week the first semester. *Sixty-four hours.*

Drs. Ferguson and Butterfield

II. Clinical Conferences

Two hours per week throughout the year, in conjunction with the Department of Medicine.

FOURTH YEAR

I. Autopsies

Students are required to attend autopsies as available and to take notes, describe gross and microscopic findings and report conclusions upon assigned cases.

PEDIATRICS

Professors Clark, Corley, W. B. Adams and Cobb; Drs. Dorothy Corbin, S. S. Corbin, Cunningham, Estabrook, Newmark, O'Connor, and Pokorny

SECOND YEAR

I. Principles of Pediatrics

One hour a week in the second semester is given to an introduction to the principles of pediatrics. This introductory course includes a discussion of normal growth and development together with the principles of infant feeding. The purpose of this course is to give the student some introduction to the subject before he takes up ward work in pediatrics in his third year. *Sixteen hours.* *Dr. Clark*

THIRD YEAR

I. Principles of Pediatrics

This course is a continuation of the work begun in the second year. In this particular course the subject matter continues with a discussion of the diseases of infancy and childhood. Special attention is given to the measures for control of communicable disease. *Thirty-two hours.*

Drs. Corley and Corbin

II. Introduction to Clinical Pediatrics

As a part of the plan for introducing third-year students to their clinical clerkships, one month is assigned to ward work in pediatrics. Instruction is carried out both individually and as a group, the section never numbering more than four. Here the students are given an introduction to the problems of history taking in pediatrics and the development of such information to its full significance. As a part of this program, special attention is also given to methods of physical examination and the interpretation of physical findings in pediatrics. Indications for, and the use of laboratory procedures important to individual cases are given full consideration. Adequate explanation of therapeutic measures indicated is included. *Forty-eight hours.* *Dr. Dorothy Corbin*

III. Neuropsychiatry of Childhood

(This course is outlined under the Department of Psychiatry.)

FOURTH YEAR

I. Clinical Pediatrics

Sections of four students each are assigned in rotation for a month as clinical clerks on the pediatrics services of the teaching hospitals in Burlington. *Drs. Clark, Corley and S. S. Corbin*

As a part of their assignment at the Wesson Maternity Hospital students in attendance there are given further instruction in the care of premature and newborn infants. This work is under the direction of the attending staff in pediatrics and is now extended to include attendance at well-baby clinics held under the direction of Wesson Maternity Hospital staff men.

Drs. Adams, Newmark and Pokorny

Additional facilities for clinical pediatrics are available in the month's service at the Worcester City Hospital.

Drs. Cobb, Cunningham and O'Connor

PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY

Professors Pierce, Leonard and Krause; Messrs. Fenton, Slesinski and Miss Birchall

FIRST YEAR

I. Physiological Chemistry

The course is designed to afford the student an insight into chemical transformations which take place in the living animal body, with special reference to man. The work is largely quantitative and deals with carbohydrates, fats, proteins, enzymes, digestion, absorption, blood and urine. The chemistry of the vitamins and hormones is discussed briefly to prepare for the more extended study in the second year of Physiology.

Lectures, recitations and laboratory. *One hundred seventy-six hours.*

Dr. Pierce and Assistants

SECOND YEAR

I. Pharmacology

The major purport of the instruction is to prepare the student for the clinical study of therapeutics by providing him with knowledge of the manner in which drugs modify functional activity in the organism. After a brief survey of the chemical properties of drugs, incompatibilities, toxicological analysis, antidotes and standardization by bioassay, the chief work of the course will be concerned with experimental pharmacodynamics. Lectures and recitations on pharmacological and toxicological properties of drugs will be closely correlated with laboratory work. Available preparation forms and posology of drugs will be studied as the various types of medical agents are considered. Prescription writing exercises will be given and various types of official preparations compounded in the laboratory.

Lectures, recitations and laboratory, *one hundred thirty-six hours.*

Drs. Leonard and Davis

II. Toxicology

The course consists of discussions and recitations and is integrated with Pharmacology. The time is divided about equally between General Toxicology and Special Toxicology in which each important poison is studied with reference to its origin, effect on the body and treatment of such poisonings. *Sixteen hours.* Dr. Leonard

The laboratory facilities of the Department are available to qualified persons for research in Physiological Chemistry and Pharmacology.

PHYSIOLOGY

*Professors *Daggs, Sichel, and Maes*

The course in Physiology covers a full academic year. The first half of the course is given in the second semester of the first year and the second half of the course in the first semester of the second year.

The course material is presented as a logical development of fundamental physiological concepts based on experimental evidence with a view to their ultimate clinical applications. The lectures are designed primarily to supplement the textbooks, particularly in respect to recent developments.

The laboratory has been redesigned and equipped for experimental work illustrating and developing those physiological principles fundamental to clinical medicine.

Facilities for research are available to properly qualified students to pursue investigations either independently or in cooperation with the members of the staff.

A biweekly seminar for the discussion of recent experimental work and viewpoints in the various medical sciences is sponsored by the Department in conjunction with other departments.

FIRST YEAR

The material covered in the first year includes the physiology, with its physical and physical chemical basis, of excitation, conduction and contraction; blood, heart and circulation; respiration; the central nervous system; and the special senses. Dr. Sichel

Lectures and conferences, *sixty-four hours*, laboratory, *ninety-six hours*, *second semester.*

SECOND YEAR

The material covered in the second year includes the physiology of secretion, digestion, excretion, nutrition, energy metabolism, internal secretions and reproduction. Considerable time is spent on endocrinology.

* Absent on military leave.

Lectures and conferences, *forty-eight hours*, laboratory, *forty-eight hours*, *first semester*.
Dr. Sichel

PREVENTIVE MEDICINE AND PUBLIC HEALTH

*Professor Benson; Drs. Aiken, *Farmer, Foster, Speas, Manson*

SECOND YEAR

I. Introduction to Public Health

Lectures, demonstrations and field trips.

The course includes studies in sanitation, ventilation, water purification, sewage disposal, milk supply, administration and functions of health agencies, both public and volunteer, and their proper relation to public health. *Sixteen hours, second semester.*
Drs. Foster and Benson

II. Oral Hygiene and Dental Medicine

The course includes a review of the fundamentals of dental embryology and histology and a correlation of oral developmental anatomy with general developmental anatomy. The fundamentals of dental terminology are reviewed to afford the medical student an opportunity to become freely conversant in dental problems discussed with the dentist and dental interne with whom he will ultimately come in contact.

Lectures making use of lantern slides, models, charts, and moving pictures follow this introduction and include the discussion of dental problems associated with prenatal care, pediatrics (including the dental problems of the adolescent), and the dental and medico-dental problems of adulthood. As a prerequisite to a better understanding of the clinical demonstration of dental cases in the senior year, the diagnosis and treatment of oral pathology and the dental care of hospital patients is covered in the course of lectures.
Dr. Speas

THIRD YEAR

I. Preventive Medicine

The course is based on a study of the principles of preventive medicine as applied both to private practice and public health. The didactic work includes demonstrations of means and methods employed in the prevention of infectious disease, in the recognition and prevention of functional disorders, and the preventive methods now employed in industrial hygiene. *Sixteen hours, second semester.*
Drs. Benson and Foster

* Absent on military leave.

II. Industrial Preventive Medicine

This course, given in the second semester, will be based on the study of the principles of preventive medicine as applied to occupational hygiene. The didactic work includes demonstrations of means and methods now employed in industrial hygiene, and also includes demonstrations at some of the industrial plants of the methods discussed. The prevention of occupational diseases will take a large part of the time of this course. *Sixteen hours.* Dr. Aiken

FOURTH YEAR

I. Section Work

Inasmuch as the City Dispensary houses a number of health agencies, arrangements for work are such that sections on service there are in close contact with public and volunteer agencies engaged in health and welfare activities. Students on city service are necessarily dependent upon a close liaison with the Howard Relief, the Visiting Nurses Association, the Vermont Crippled Children's organization, the bureaus for maternal welfare and child hygiene, the Vermont Tuberculosis Association, the State program for the control of venereal disease, and the functions of the State Health Department. The Staff

Students on pediatrics assignment in Burlington are assigned to oral hygiene clinics at the Burlington Dental Dispensary. The clinics are under the direction of the State's Oral Hygienist and are designed for the study of problems in oral disease both from a preventive and a therapeutic standpoint. Since the majority of patients seen in these clinics are referred through agencies engaged in child health, the students in many instances are able to follow their patients not only through the medical services but through the dental clinic as well. Dr. Speas

PSYCHIATRY

Professor O'Neil; Drs. Kundert and Thorne

SECOND YEAR

I. Medical Psychology

This is an introductory course in Psychobiology, Mental Hygiene and Psychopathology. It includes a description of the psychobiological origins of the various personality reactions, together with the pathological mental mechanisms underlying the development of mental disorders. The lectures on mental hygiene outline the factors involved in the preservation of mental health. *Thirty-two hours.* Dr. Thorne

THIRD YEAR

I. Principles of Psychiatry

The didactic lectures making up this course include discussions of descriptive psychology, the incidence and causes, symptomatology and classification, the diagnosis and treatment of mental diseases. Methods of examination and history taking are emphasized. Special attention is given to the subject of commitment of the insane. *Twenty hours.* Dr. O'Neil

Clinical lectures illustrative of problems under didactic discussion are offered in Waterbury at the State Hospital for mental disease. *Approximately twelve hours.* Dr. O'Neil and Staff

II. Neuropsychiatry of Childhood

Lectures and discussions are offered on the recognition, etiology, prevention, and treatment of the various behavior and personality disturbances encountered in childhood and adolescence. Neurogenic, psychogenic, and psychosomatic factors are considered in an attempt to give the student a working concept of the totally functioning child. *Sixteen hours.* Dr. Kundert

FOURTH YEAR

I. Clinical Psychiatry

Each student spends two weeks in residence at the State Hospital for mental disease and two weeks at the Brandon State School. This assignment includes ward rounds, history taking, observation and assistance in therapeutic measures used, and attendance at staff meetings and conferences. Dr. O'Neil and Staff

Ward rounds and visits to the outpatient clinic in psychiatry are included in connection with the work in neurology at the Worcester City Hospital. On this particular service the student is given an introduction to certain phases of psychiatry not presented by the institutionalized patient. Drs. Vibber and Arnold

II. Mental Hygiene Clinics

Students on the Burlington pediatrics service are assigned in small groups to observe diagnostic and therapeutic procedures carried out at the Vermont Mental Hygiene Clinic for children in Burlington. Individual assignments are included and the student is expected to take histories and under supervision make examinations of patients seen at these clinics. Later the results of these findings are presented to the section for discussion. *Twenty hours.* Dr. Thorne

RADIOLOGY AND PHYSICAL THERAPY

Professors Soule and Shebadi; Drs. Caldwell and Hale

FIRST YEAR**I. Introduction to Radiology**

Lectures and demonstrations in conjunction with Departments of Physiology and Anatomy. Physics and general principles of radiology; normal roentgen anatomy and physiology; fluoroscopic demonstrations of chest. *Eight hours.* *Dr. Soule*

SECOND YEAR**I. Radiology**

Continuation of fluoroscopic and roentgenographic demonstrations in conjunction with Departments of Physiology and Anatomy.

Roentgen diagnosis of bone tumors and of diseases of the chest; effects of radiation on normal and abnormal tissues; introduction to radiotherapy. *Eight hours.* *Drs. Soule and Shebadi*

THIRD YEAR**I. Radiology**

Diagnostic and therapeutic radiology; lectures and demonstrations covering the diagnosis of abnormalities of the skeletal system, alimentary tract, urinary tract, central system; considerations of the use of X-ray and radium in the treatment of neoplasms, endocrine disturbances, and inflammatory lesions. *Thirty-two hours.* *Drs. Soule and Shebadi*

II. Physical Therapy

Lectures on the physics and general principles of physical therapy, including dry and moist heat, massage and manipulation, ultra-violet and infra-red rays. Indications and contra-indications and methods of applications of each. *Twelve hours.* *Drs. Shebadi and Hale*

FOURTH YEAR**I. Radiology Conferences**

Weekly conferences on general radiological problems, and current literature. Members of other clinical departments are present at most of these sessions. Each student is required to prepare a paper on some phase of radiology for presentation before the group at some time during the year. *Forty-eight hours.* *Dr. Soule and Members of Staff*

II. *Physical Therapy Clinics*

Three days a week at the Burlington Free Dispensary. Section demonstrations and discussions of physical therapy at hospitals, dispensary and other institutions.

Dr. Hale

SURGERY

*Professors Allen, Townsend, Mackay, B. J. A. Bombard, Bellerose, Rood, B. D. Adams, Maynard, Rees, Truax, Flagg, Bieberbach, Abajian, *Cudlipp, Gladstone, and Hogan; Drs. Antoniewicz, L. G. Thabault, Crandall, Felton, Lynch, Phelps, †Scarcello, Tully, Bottamini, and C. E. Bombard*

SECOND YEAR

I. *Recitations*

A textbook, recitation and quiz course with informal discussions or lectures. An effort is made to make clear the connection between surgery and the preclinical subjects of Anatomy (including Histology), Physiology, Bacteriology and Pathology. Diagnosis is especially stressed.

The topics covered are: inflammation and repair, burns, wounds, infections and injuries to or diseases of the tendons, muscles and ligaments, bursae, vascular and lymphatic systems, osteomyelitis, and amputations; also aseptic surgical technic and minor surgical procedures. *Sixty-four hours.*

Drs. Truax and Thabault

II. *Practical Surgery*

Bandaging, use of splints and other surgical appliances, work with plaster of Paris. The student applies the bandages to all parts of the body and his work is criticized by the instructor. Taught in small sections. *Ten hours per section.*

Dr. Lynch

THIRD YEAR

I. *General and Regional Surgery*

The course is covered largely by case histories, with prerequisite reading of textbooks or medical journals on the subject under discussion. Differential diagnosis is emphasized and operative technic minimized. *Sixty-four hours.*

Drs. Allen, Mackay and Rees

II. *Fractures and Dislocations*

Besides a routine covering of the ordinary fractures and dislocations, with the necessary diagnostic steps, including X-ray and the various pro-

* Absent on military leave.

† Absent on naval leave.

cedures for their proper reduction, there is a demonstration of apparatus and its application. The occasional advisability of open reduction and internal fixation is made clear, with its dangers and advantages. The necessity of temporary splinting before transportation is insisted upon. Whenever possible, the cases in the wards are used to demonstrate the actual fracture and its treatment. X-ray films are used extensively. *Thirty-two hours.* Dr. Maynard

III. Surgical Anatomy

This course is, to some extent, a review of the students' previous anatomical studies, with the special object of showing anatomical relationships in the more usual surgical operations such as those for hernia, appendicitis, cholecystitis, thyroidectomy, infected hands, and similar cases. *Sixteen hours.* Dr. Mackay

IV. Anesthesiology

The object of this course is to give the student a theoretical knowledge of the subject before he gives anesthetics (under supervision) during his fourth year. *Sixteen hours.* Dr. Abajian

V. Clinico-Pathological Conferences

These conferences are supervised by various members of the Medical, Surgical and Pathological Departments, and are included in the text of the Department of Medicine. *Sixty-four hours.*

VI. Rectal Diseases.

A clinical demonstration and discussion of diseases of the anus, rectum and colon, is held at the Mary Fletcher Hospital on those Friday afternoons during the year when the special lecturer in Dermatology is not teaching. *Sixteen hours.* Drs. Adams and Gladstone

FOURTH YEAR

I. Clinical Clerkships

The class is divided into sections which, under the supervision of the surgical teachers, act as clinical clerks and assistants in the Mary Fletcher, Bishop DeGoesbriand, Fanny Allen and Fort Ethan Allen Hospitals, and in the Dispensary or on City Service, rotating in their appointments. The class as a whole, unless unavoidably prevented, meets once a week for a surgical clinic, paper clinic or discussion, with Doctor Allen. Sections in minor surgery and diagnosis are assigned at the Dispensary, two hours a day, six days a week. *Three hundred and twenty hours.*

Dr. Allen and Staff

II. *Clinical Anesthesiology*

The fourth-year students in rotation are given practical instruction in anesthesia at the Mary Fletcher Hospital under the direct supervision of the Assistant Professor of Anesthesia.

Dr. Abajian

ORTHOPEDIC SURGERY

THIRD YEAR

The didactic and clinical course is held at the Mary Fletcher Hospital on Tuesday mornings, one hour a week throughout the year. To the clinics are brought a number of cases from the Crippled Children's Division of the Vermont State Board of Health, and referred cases from physicians and the hospital.

Dr. Bellerose

FOURTH YEAR

The surgical section on Wednesday morning is clinical and is primarily used to demonstrate orthopedic cases in the surgical wards at the Mary Fletcher Hospital.

Dr. Maynard

UROLOGY

THIRD YEAR

One hour weekly during the second semester is given to a discussion of the diseases of the genito-urinary system. *Sixteen hours.*

Dr. Flagg

FOURTH YEAR

I. *Urology and Venereal Diseases*

Sections of four students each spend a month in Worcester, Massachusetts, where each day is given to clinical clerkships in the Department of Urology at the Worcester City Hospital. The work is divided equally between inpatient and outpatient services. The outpatient service includes attendance at the City Clinic for Venereal Diseases.

Drs. Bieberbach, Felton, Phelps, and Tully

Work in Burlington includes one morning clinic weekly in urology at the Mary Fletcher Hospital, and two afternoon clinics weekly in venereal diseases.

Drs. Townsend and Flagg

*MEDICO-MILITARY SCIENCE

Professor Wyer

BASIC COURSE

First year, lectures. *Thirty-two hours.*

Second year, lectures. *Thirty-two hours.*

* See pages 239-240.

ADVANCED COURSE

Third year, lectures. *Thirty-two hours.*

Fourth year, lectures. *Thirty-two hours.*

The Departments of Physical Education

PHYSICAL EDUCATION FOR MEN

*Professors Prentice, Post, and Gardner; Dr. T. H. Harwood;
Messrs. Evans, Wietz and Fogg*

It is the purpose of this department to provide an interesting, recreational and healthful program for the men students of the University. Physical Education is required of all students in the academic colleges who are registered in Freshman or Sophomore standing. Each new student is given a Health and Physical Examination and any defects discovered are carefully recorded. Students found to be normal take part in the regular physical education activities. Those who have physical or health defects are gathered into small groups and given special corrective work, or placed on a restricted exercise basis. This branch of the department covers diet, health habits, body and foot mechanics. Regular follow up examinations are given at frequent intervals by the Medical Director.

All students are candidates for Sigma Delta Psi, the National Athletic Honorary Society. Membership is based on performance standards in the various sports, and good academic work. This is the highest distinction that a student may attain in Physical Education at the University.

COURSES OF INSTRUCTION

1. **FUNDAMENTALS OF PHYSICAL EDUCATION.** This introductory course includes instruction in posture, marching, tactics, calisthenics, and fundamentals of the various physical and recreational activities, the development of skill in selected activities, special emphasis upon fundamental physical activities, such as jumping, striking, running, tumbling, kicking with application to various activities such as football, baseball, track and basketball. The purpose of the course is to improve coordination and endurance, to establish habits of regular exercise and to build up proper attitudes toward and interest in athletic activities.

The course is supplemented by the requirement of eight lectures on Personal Hygiene covering instruction in posture, care of the teeth and

eyes; habits contributing to personal health, including bathing, clothing and exercise. These lectures give the student an understanding and appreciation of the factors necessary for health and healthful living. *Two hours* (REQUIRED ACADEMIC FRESHMAN MEN).

*Professors Post and Gardner;
Dr. T. H. Harwood; Messrs. Evans and Fogg*

2. SEASONAL ACTIVITIES. The intermediate course for students in good physical condition who have completed Physical Education 1.

The program is seasonal, outdoor programs being given in the Fall and Spring and an indoor program during the Winter. Each student enrolled is required to elect one activity from each of the following lists:

Fall—Football, touch football, tennis, golf, cross-country, fall track, and recreational gymnastics.

Winter—Basketball, indoor track, indoor baseball, boxing, wrestling, apparatus, tumbling, handball, badminton, volley ball, swimming, recreational gymnastics, winter sports, and skiing.

Spring—Baseball, track, softball, rugby, tennis, riding, recreational gymnastics, and swimming.

Supervision and instruction is given in each selection. *Two hours* (REQUIRED ACADEMIC SOPHOMORE MEN).

*Professors Prentice, Post, and Gardner;
Messrs. Evans, Wietz and Fogg*

3. ADVANCED COURSE IN ADMINISTRATION AND COACHING.
(Not offered (1942-43.)

Football Theory and Practice.—The history of the game, its educational implications. Analysis of the various systems of play. Instruction in individual and team fundamentals. Strategy, technique and generalship. Both practical and theoretical requirements. *Mr. Evans*

Administration.—Philosophical and psychological basis of athletics and physical education in educational procedure. The educational, health and recreational significance of physical education. A broad cultural view of the field. Specifically, organization of athletics, including inter-scholastic, intramural, etc., problems of finance, equipment, officials, scheduling and facilities. *Professor Prentice*

Two semester hours, first semester. ELECTIVE TO JUNIORS AND SENIORS WHO ARE ENROLLED IN CURRICULA IN EDUCATION. ELECTIVE TO SENIOR MEN IN OTHER CURRICULA BY SPECIAL PERMISSION. PREREQUISITE: PHYSICAL EDUCATION 1 AND 2.

4. HUMAN MECHANICS AND ADVANCED COACHING.

(Not offered 1942-43.)

Basketball.—Theory and practice. History and development of the game. Individual and team offense and defense. Technique of fundamentals. Analysis of various systems of play. *Mr. Evans*

Human Mechanics.—Basic anatomy and physiology to understand structure and function of the body. Diagnosis and treatment of athletic injuries. Problems of hygiene and sanitation. Elementary examination and diagnosis. Theories of training and First Aid. Practical work in massage, taping and bandaging. *Mr. Wietz*

Baseball.—History and development of game. General technique of offense and defense tactics. Fundamentals and strategy.

Professor Gardner

Track.—Instruction involving a short history, rules, and traditions of the sport. Class and individual instruction in the fundamentals and techniques of the various events of the track and field program. Care and conditioning of competitors. *Professor Post*

Two hours, second semester. ELECTIVE TO JUNIORS AND SENIORS WHO ARE ENROLLED IN CURRICULA IN EDUCATION. ELECTIVE TO SENIOR MEN IN OTHER CURRICULA BY SPECIAL PERMISSION. PREREQUISITE: PHYSICAL EDUCATION 1 AND 2.

INTRAMURAL ATHLETICS

This program is closely supervised by the Department of Physical Education for men. The participation of students is voluntary. Interclass, interfraternity, and individuals compose the competing groups. An Intramural Council comprised of one representative from each competing group aids the director in making schedules and determining policy for the intramural program. All competitions carry suitable awards for the winners. Intramural contests are conducted in:

Fall—Tennis, golf, touch football.

Winter—Interclass basketball, interfraternity basketball, skating, skiing, wrestling, boxing, handball, badminton, free throwing, annual relays, bowling and ice hockey.

Spring—All-college track meet and interfraternity softball.

University Hexathlon Competition for the J. E. Donahue Trophy. Composed of six events—110-yard dash, rope climb, high jump, broad jump, shot put, and mile run. The student getting the highest score for the six events wins the Trophy and the title of the "best all-round athlete" for the year.

Interfraternity athletic competition carries points for the Traynor Trophy for both the winner and runner-up in each event.

PHYSICAL EDUCATION FOR WOMEN

Professor Eleanor S. Cummings; Miss Crowe, Miss Witters, and Dr. Dorothy B. Corbin

GENERAL STATEMENT. A medical and physical examination given by a woman physician and the department instructors is required of every entering student. On the basis of this examination, the student receives advice as to the correction of defects and direction as to her physical activities. For all students taking required Physical Education, the examination is supplemented by periodic health conferences.

Students presenting a physician's excuse are placed in light exercise groups and given prescribed hours of rest. These students report every week for general health supervision.

Sophomores and upperclassmen have an examination of heart, lungs and general physical condition before entering any form of athletics.

The courses and training of the Department of Physical Education for Women are given on Redstone Campus in the Southwick Memorial Building. Available for the use of the department are two large recreation rooms, one for instruction in games and sports, the other for classes in folk and square dancing, and modern dance technique.

The athletic fields, tennis courts and play grounds for women are located nearby.

The purpose of the courses is to improve carriage, skill, health, and endurance, to establish habits of regular exercise and to give instruction in various types of recreative sports which will be useful and enjoyable during college and afterward.

The required courses for Freshmen and Sophomores include many activities which are subject to the seasonal schedules shown below:

Fall—All sports out of doors. Archery, Field Hockey, Tennis, Horseback Riding and Golf. The last two sports carry a moderate fee.

Winter—Fundamental Gymnastics, Corrective Work. Dancing (Folk, Country and Square Dancing, Modern Dance Technique). Games, Fundamentals of Basketball, Volleyball, Deck Tennis, Shuffleboard, Badminton, Archery and Golf. Basketball, Skating, Skiing, Snowshoeing and Bowling are extra-curricular sports and receive Women's Athletic Association credit.

Spring—Tennis, Archery, Softball. Horseback Riding and Golf may be elected for moderate fees.

Elective courses for Juniors and Seniors are offered in Modern Dance Technique; Dance Composition, and Methods of Teaching Tennis, Field Hockey, Basketball, Badminton and Softball.

Tournaments representing all games and sports, and sports clubs open to all women students are conducted under the direction of the Department instructors and the Women's Athletic Association.

TWO YEARS OF PHYSICAL EDUCATION FOR TWO PERIODS WEEKLY ARE REQUIRED OF ALL COLLEGE WOMEN. THIS REQUIREMENT SHOULD BE COMPLETED DURING THE FRESHMAN AND SOPHOMORE YEARS. SUPPLEMENTARY FOR FRESHMEN IS A COURSE IN HYGIENE, ONE HOUR PER WEEK.

ENROLLMENT IN THE ADVANCED COURSES, WHICH ARE ELECTIVE, IS SUBJECT TO APPROVAL OF THE HEAD OF THE DEPARTMENT.

The Department of Military Science and Tactics

Colonel GEORGE F. N. DAILEY, INFANTRY, U. S. ARMY

Professor of Military Science and Tactics

Major HARRY G. WYER, MEDICAL CORPS, U. S. ARMY, RETIRED

Professor of Medico-Military Science

Captain FRANCIS P. SIMPSON, INFANTRY, U. S. ARMY, RETIRED

First Lieutenant ROBERT J. M. FYFE, JR., INFANTRY, RESERVE, U. S. ARMY

First Lieutenant CARL H. SCHOFIELD, INFANTRY, RESERVE, U. S. ARMY

Assistant Professors of Military Science and Tactics

Master Sergeant RAYMOND T. CONNER, U. S. ARMY, RETIRED

Staff Sergeant JAMES A. PICKETT, U. S. ARMY

Staff Sergeant RUDOLPH P. PAPPAS, U. S. ARMY

Staff Sergeant ANDREW J. LANDA, U. S. ARMY

Instructors of Military Science and Tactics

THE INFANTRY UNIT

GENERAL INFORMATION. All male students of the Freshman and Sophomore classes in the College of Arts and Sciences, the College of Agriculture, and the College of Engineering, unless excused for adequate reason, are required to take Military Science 1 and 2 as a prerequisite

to graduation from the University. They receive eight semester hours credit for these two basic courses and these credits become an integral part of the record of the student and are counted toward graduation. Military Science 3 and 4 are elective to properly qualified Juniors and Seniors.

The Military Training courses aim to acquaint students with the fundamentals of military science and tactics and to give them training in posture, bearing, courtesy, punctuality, initiative, and leadership over men. They are offered by the University with the cooperation of the Federal Government which provides arms and ammunition and officers and non-commissioned officers of the Regular Army of the United States who serve as the teaching staff in this department.

Absences from training or instruction can be excused only for physical disability or other exceptional causes. Any student who is so excused from practical or theoretical instruction will be required to make up the omitted training. Unexcused absences, and excused absences which are not made up, operate to reduce the grade given in the course.

A bond is required of each student taking Military Science. The object of this bond is to protect the University against loss or damage as a consequence of the issue and use of military clothing, arms, and equipment while he pursues the course in Military Science. A bond in prescribed form must be executed and furnished by every student before issues can be made to him. The surety in the bond may be the parent or guardian of the student or any well-known citizen of the State of Vermont whose financial condition is known to the University officials. The witnesses to the signature of the principal and surety must be of lawful age and other than the principal or surety.

The University Corps of Cadets is organized into an infantry battalion of four rifle companies and a band, comprising a Senior Division Infantry Unit of the R. O. T. C. The officers are appointed from among the members of the Senior class, sergeants normally from among members of the Junior class, and corporals from members of the Sophomore class. Military customs and courtesies are required to be observed by students while under military instruction.

Members of the Freshman and Sophomore classes must provide themselves with the distinctive University of Vermont uniform, at an approximate cost of \$30, which will, with proper care, wear for the entire two years of the required courses. *Second-hand uniforms will not be accepted.* Members of the Junior and Senior classes taking Military Science courses wear a cadet officers' uniform which is of such pattern that it may be worn as an officers' uniform in the Reserve Corps of the Army of the United States, after graduation. Its approximate cost is \$46. Students

not members of the Reserve Officers' Training Corps receive no federal aid toward meeting these expenses.

RESERVE OFFICERS' TRAINING CORPS

Students taking the courses in Military Science who are citizens of the United States, and not less than sixteen years of age, and can pass the required physical examination, may join the R. O. T. C. During the Freshman and Sophomore years, membership in the R. O. T. C. entitles a student to receive federal aid to the amount of approximately \$18 as partial compensation for the expense of providing himself with a uniform. During the Junior and Senior years, membership in the R. O. T. C. entitles a student to receive federal aid in the form of commutation of uniform (approximately \$35) and commutation of subsistence (25 cents per day) which is paid quarterly, and includes pay for holidays and vacation periods, except for the time spent at summer training camp. For the Junior and Senior years the student will thus receive more than one hundred dollars (\$100) a year. These amounts are only approximate as commutation is dependent upon annual appropriations and is subject to change.

Military Science 1 and 2 covering the Freshman and Sophomore years, comprise the "Basic Course" and Military Science 3 and 4 offered during the Junior and Senior years comprise the "Advanced Course." The Advanced Course is elective for members of the Junior class who have successfully completed the Basic Course and *who are selected for further training by the Professor of Military Science and Tactics and the President of the University.* To enroll in this course the student must agree in writing to complete the entire course of two years, and to attend the R. O. T. C. summer training camp. The summer training as now prescribed consists of one camp of six weeks' duration, which is held at Fort Devens during the summer following completion of the Junior year. Transportation to and from camp, subsistence in kind, uniforms, equipment, medical attendance, and pay at the rate of about \$1.00 per day are furnished members of the R. O. T. C. attending this camp.

Upon successful completion of the Advanced Course, qualified students are eligible to be commissioned as Second Lieutenants in the Infantry Section of the Officers' Reserve Corps of the Army of the United States. The commissions are awarded, with the University diplomas, at the graduation exercises at Commencement.

MILITARY SCIENCE COURSES

1. FRESHMAN BASIC. The outline of the instruction in this course is: Leadership, Military Courtesy, Discipline and Customs of the

Service, Military History and Policy, Principles of Organization, Sanitation and First Aid, Rifle Marksmanship, and Map Reading. *Three hours.* REQUIRED OF ALL MALE FRESHMEN.

*Colonel Dailey, Major Wyer, Captain Simpson,
Lieutenant Schofield, Master Sergeant Conner,
Staff Sergeant Pickett, Staff Sergeant Landa,
Staff Sergeant Pappas*

2. SOPHOMORE BASIC. The outline of the instruction in this course is: Characteristics of Infantry Weapons, Scouting and Patrolling, Musketry, The Automatic Rifle, Combat Principles of Small Units, Leadership. *Three hours.* REQUIRED OF ALL MALE SOPHOMORES.

*Colonel Dailey, Lieutenant Fyfe,
Staff Sergeants Pickett and Landa*

3. JUNIOR ADVANCED. The outline of the instruction in this course is: Machine Guns, Howitzer Weapons, Pistol and Rifle Marksmanship, Aerial Photograph Interpretation, Combat Principles, Leadership, Care and Operation of Motor Vehicles, Administration, Defense against Chemical Warfare. *Five hours.* ELECTIVE TO QUALIFIED JUNIORS. PREREQUISITE MILITARY SCIENCE 2.

Lieutenant Schofield and Master Sergeant Connor

4. SENIOR ADVANCED. The outline of the instruction in this course is: Military Law, American Military History, Tanks and Mechanization, Defense against Aircraft, Chemical Warfare, Signal Communications, Combat Intelligence, Combat Orders, Combat Principles, Methods of Instruction, Organized Reserve Regulations, and Leadership. *Five hours.* ELECTIVE TO SENIORS. PREREQUISITE MILITARY SCIENCE 3.

Captain Simpson

MEDICAL UNIT—RESERVE OFFICERS TRAINING CORPS

Professor Wyer

A course in Medico-Military Science is available to all medical students who enroll in the Medical Unit of the Reserve Officers Training Corps. This unit has been established by the War Department on application of the University authorities and is open to male medical students who have no disqualifying physical defects. The object of the course is to prepare students for commission in the Medical Reserve Corps on graduation.

Instruction in this subject is divided into two (2) courses: Basic and Advanced. Each course consists of two (2) years with approximately

thirty-two hours of class work per year. Enrollment in either course is for the full two years.

The basic course is designed for Freshmen and Sophomores and consists of instruction in Military Fundamentals, the organization of the Army and Medical Department, the tactical employment of Medical Department units with such accessory subjects as will prepare the student for a better appreciation of the advanced course which is largely preventive medicine.

Only those students who have satisfactorily completed the Basic course are eligible for the Advanced course. Students accepted for the Advanced course must attend the summer camp of six weeks' duration, held at the Medical Field Service School, Carlisle Barracks, Pennsylvania. This camp should be attended during the Sophomore-Junior vacation.

Certain financial benefits accrue to members of the Advanced course. For the summer camp the Government pays them mileage to and from the camp, \$30.00 per month while at camp, plus board, clothing, quarters, and medical attention. In addition, students receive commutation of 25 cents per day during the Junior and Senior years. Total payments amount to about \$100.00 per year.

COMMUTATION FOR ADVANCED STUDENTS

Certain financial benefits are allowed to those who satisfactorily complete the basic course and enroll in the advanced course. In the past, this has amounted to about one hundred fifteen dollars (\$115.00). This amount may be only approximate as it is subject to annual appropriations. In addition, a summer camp is usually held at the Medical Field Service School, Carlisle Barracks, Pa. Students who complete the basic course and enroll in the advanced course are eligible to attend. The Government pays travel to and from camp, thirty dollars (\$30.00) per month while attending camp, plus board, quarters, clothing and medical attention.

The Curricula

The University of Vermont and State Agricultural College offers a variety of curricula in its four colleges: Arts and Sciences, Engineering, Agriculture, and Medicine. These are fully described in this section.

There are also three curricula that are given in cooperation with the Vermont State Board of Education, the degrees being voted by the Board of Trustees on recommendation of the Department of Education and the Senate Committee on Degrees. The Elementary Education curriculum and the Music Education curriculum lead to the degree of Bachelor of Education. In the Industrial Education curriculum the degree is Bachelor of Science in Education.

All baccalaureate degrees require four resident college years or the equivalent.

THE COLLEGE OF ARTS AND SCIENCES offers instruction in Art, Botany, Chemistry, Economics including Secretarial Studies, Education, English, Forestry, Geology, German, Greek, History, Home Economics, Latin, Mathematics, Mineralogy, Music, Philosophy, Physics, Political Science, Psychology, Romance Languages including French, Italian and Spanish, Sociology and Zoology. There are four group elective and five specialized curricula.

Group Elective Curricula

Classical
Literary-Scientific
Social Science
General Science and Pre-Medical

Degree

Bachelor of Arts
Bachelor of Philosophy
Bachelor of Philosophy
Bachelor of Science

Specialized Curricula

Chemistry
Business, Secretarial, and
Commercial Teaching
Secondary Education

Degree

Bachelor of Science in Chemistry
Bachelor of Science in Commerce
and Economics
Bachelor of Science in Education

THE COLLEGE OF ENGINEERING offers three curricula: Civil Engineering, Electrical Engineering, and Mechanical Engineering, each leading to the degree of Bachelor of Science in the field of specialization.

THE COLLEGE OF AGRICULTURE offers optional curricula in nine professional fields: In Agriculture the special fields are: Teaching, Plant Industry, Dairy Production, Dairy Manufactures, and Agricultural Economics,

each leading to the degree of Bachelor of Science in Agriculture. There are four options in Home Economics: General, Education, Clothing and Textiles, Food and Nutrition, each leading to the degree of Bachelor of Science in Home Economics.

THE COLLEGE OF MEDICINE offers an approved curriculum leading to the degree of Doctor of Medicine. Three or more years of college pre-medical preparation must be completed before enrollment.

The College of Arts and Sciences

GROUP ELECTIVE CURRICULA

THE CLASSICAL, LITERARY-SCIENTIFIC, SOCIAL SCIENCE, AND GENERAL SCIENCE CURRICULA are offered under the group elective plan and present opportunities for major work in almost any department or field of study that may particularly interest an individual student. By proper selection of the curriculum and wise choice of subject matter, these courses of study serve as a basis for professional and technical training, particularly in connection with education, law, journalism, dentistry and medicine. For those having no definite objective these curricula provide a liberal education in the arts and sciences yielding results in personal satisfaction, improved opportunities for success, and a greater usefulness in later life.

Students who are especially interested in languages should consider the Classical or Literary-Scientific curriculum. Those whose primary interests lie in the fields of Economics, History, Philosophy, Political Science or Psychology may choose the Social Science curriculum. The General Science curriculum is offered as a preparation for Medicine and the other scientific professions, as well as to students to whom the sciences and mathematics have particular appeal.

These curricula consist of a required group of courses to provide foundation; major and minor specialization in two related departments, to insure concentration; a group of restricted electives, to provide reasonable distribution of studies; and free electives, to provide for individual interest and self-expression.

THE REQUIRED GROUP OF COURSES, each of which must be completed by all students before graduation, are: English 1, English 2, two courses in Physical Education and either Psychology 1 or Philosophy $\frac{1}{2}$ or Philosophy $\frac{4}{6}$. Military Science is required of all men during the Freshman and

Sophomore years. Each course is taken for credit and this credit is an integral part of the student's record and is counted toward graduation.

A MAJOR AND RELATED MINOR is required of each student enrolled in a Group Elective curriculum. A *course* is the formal resident study of a subject for three hours a week during one college year. A *minor* consists of two and a *major* of three approved courses in the same department, normally taken in consecutive college years. A *related minor* is a minor completed in a department or subject that is considered related to the work in the department in which the required major was taken. *Group electives* are courses suggested as to their general field and chosen to satisfy the required distribution of studies. *Free electives* are courses which the student chooses to supplement the required courses and restricted group electives in sufficient amount to meet the minimum credit hour requirement for the degree.

Greek A, Latin A, Latin B, English 1 and English 2 are not counted as parts of any major, related minor or minor specified as a group elective. French 1, German 1 and Spanish 1 are counted as parts of group elective minors but are not considered as parts of the required major or related minor. At least three of the five minimum courses of the major and related minor must be taken during Junior and Senior years, and at least one course during Senior year. In the Social Science curriculum the major and related minor must be chosen from the departments of Economics, History, Political Science, Philosophy, and Psychology. A related minor may be taken in Sociology by completing Sociology 1, Philosophy 3 and Psychology 3. In the General Science curriculum the major and related minors must be taken in Science and Mathematics. Two of the three courses of the major and the two courses of the related minor may either or both be counted as group elective minors.

THE GROUP ELECTIVES, which insure a reasonable distribution of studies, are different in each Group Elective curriculum.

The teaching departments of the College of Arts and Sciences are listed in three groups which provide the broad foundation for this distribution. These divisions are: Languages and Literatures, Social Sciences, and Science and Mathematics.

Languages—Greek, Latin, English, German, French, Spanish, Italian.

Social Sciences—Philosophy, Psychology, History, Economics, Sociology, Political Science, Education.

Sciences—Mathematics, Physics, Chemistry, Botany, Zoology, Geology, Mineralogy, Forestry.

Although Psychology is listed in the Social Science group, the course in Experimental Psychology 106 may be counted as a non-laboratory science by students who are not majoring in Psychology.

Music, omitted above, is considered a Social Science group subject to the extent that a major in it may be counted as three courses in the Social Science group. Only students in the Classical and Literary Scientific curricula may take music as the required major.

Home Economics is omitted as the courses offered may be taken only as free electives.

The system of elective studies begins with the Sophomore year. On or before May 1 of each year each student submits to the Dean a statement of the courses which he plans to take to satisfy the major, related minor and group electives of the curriculum in which he is enrolled. The choice of the major must be approved in writing by the head of the department in which the proposed courses are taught. A special form is provided for this report.

THE FREE ELECTIVES. The elective courses account for about one-third of the graduation requirement in each Group Elective curriculum. They are chosen in the last two years in sufficient amount to make the enrollment total at least thirty hours in the Junior and thirty hours in the Senior year.

Advanced Military Science is an acceptable free elective for men who have completed the basic courses and who have the approval of the Professor of Military Science and Tactics. Two courses are offered, each giving six semester hours credit toward graduation.

Except with special permission, no student shall enroll in more than eighteen hours per week if during the previous half-year he has obtained a grade lower than "A" in more than one-half of his work. Any student who desires to elect courses in other colleges of the University, or to take more than eighteen or less than fifteen hours per week, must obtain the approval of the Dean of the college in which he is enrolled.

The student should choose his free electives with a deliberate purpose and should make judicious additions to his major and related minor. The intensive study of some subject or group of subjects is strongly recommended.

NOTICE OF REVISED CURRICULUM FOR 1942-1943. The Faculty of the College of Arts and Sciences has established an Arts College curriculum to take effect in the year 1942-1943 which will replace the four curricula of Classical, Literary Scientific, Social Science and General Science with one curriculum leading to the A.B. degree. A statement regarding this will be sent to prospective students.

THE CLASSICAL CURRICULUM

The entire record of each candidate for the A.B. degree from this curriculum must show the credit expressed in each of the following requirements:

The required courses.

An approved major and related minor.

A minor in college Greek or Latin.

A second minor either in the other classical language or in French, German or Spanish.

Three courses in the Social Sciences including not more than one in Education.

Two courses, chosen from Botany, Chemistry, Geology, Mathematics, Mineralogy, Physics and Zoology.

Free electives in sufficient amount to complete the minimum credit for graduation.

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Greek A or 1	4-3	4-3
French 1 or 3, or German 1 or 2	3	3
Latin A or B or 1	3	3
Restricted Elective to be chosen from History 2, History 3, Political Science 1, Mathematics 1 or Natural Science	3-4	3-5
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE LITERARY-SCIENTIFIC CURRICULUM

The entire record of each candidate for the Ph.B. degree from this curriculum must show the credit expressed in each of the following requirements:

The required courses.

An approved major and related minor.

Latin 1.

Two minors chosen from Latin, French, German or Spanish.

Four courses from the Social Sciences.

Two courses in science chosen from Botany, Chemistry, Geology, Mathematics, Physics and Zoology; one of which must be a laboratory course.

Free electives in sufficient amount to complete the minimum credit for graduation.

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Latin A or B or 1	3	3
French 1 or 3, or German 1 or 2	3	3
Mathematics 1 or a Science	3-4	3-5
Restricted Elective to be chosen from History 2, History 3, Political Science 1, a Second Modern Language or Natural Science.....	3-4	3-5
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOCIAL SCIENCE CURRICULUM

The entire record of each candidate for the Ph.B. degree from this curriculum must show the credit expressed in each of the following requirements:

The required courses.

A Social Science Department major, two related minors and one related course.

Economics 1, History 3 and Political Science 1.

Two courses chosen from French 3, German 2, Latin 1 and Spanish 2 or the completion of an advanced course in one of these departments.

Two courses, besides the required Mathematics 1, chosen from Botany, Chemistry, Geology, Mathematics, Mineralogy, Physics and Zoology, one of which must be a laboratory course.

Free electives in sufficient amount to complete the minimum credit for graduation.

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Mathematics 1	4	4
French, German, Latin or Spanish	3	3
History 3	3	3
Political Science 1 or a Second Modern Language or Natural Science	3-4	3-5
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2	2	2
*Economics 1	3	3
Foreign Language	3	3
*Laboratory Science	4-5	4-5
*Psychology 1 or Philosophy $\frac{1}{2}$ or Philosophy $\frac{4}{5}$	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE GENERAL SCIENCE CURRICULUM

The entire record of each candidate for the B.S. degree from this curriculum must show the credit expressed in each of the following requirements:

The required courses.

An approved major, two related minors and one course; the majors and minors to be chosen from the departments of Botany, Chemistry, Geology, Mathematics, Physics and Zoology.

Mathematics 2 and Chemistry 1 and Physics 1.

Botany 2 or Geology 1 or Zoology 2.

A minor in French, German or Spanish.

Three courses in the Social Sciences including not more than one in Education.

Free electives in sufficient amount to complete the minimum credit for graduation.

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Mathematics 1	4	4
French 1 or 3, or German 1 or 2	3	3
Chemistry 1 or 21	4	5
Restricted Elective to be chosen from History 14, Political Science 1 or a Natural Science.....	3-4	3-5
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2	2	2
Mathematics 2	3	3
French or German	3	3
Physics 1	5	5
Group Elective	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

* A group elective may be substituted.

THE PRE-MEDICAL CURRICULUM

The four-year Group Elective curricula, particularly General Science, are recommended to students who intend to study medicine. Those who wish to combine the science courses which are required for medical school admission with a Classical, Literary-Scientific or Social Science enrollment must plan the course sequences in advance in order to be sure of meeting both pre-medical and degree requirements at the end of four years.

For those choosing a shorter preparation, the seven-year combination curriculum is offered. This requires three years in the College of Arts and Sciences, the Bachelor's degree being awarded on the completion of the first year's work in any approved medical school. Students who do not secure admission to a medical college may enroll as seniors in the General Science curriculum and complete the requirements for the Bachelor of Science degree in that year. Combination curricula are possible in other group elective curricula, but careful planning of the enrollment is necessary during the three pre-medical years.

The synopsis of the Pre-Medical curriculum given below indicates the requirements for admission to the first year class of the College of Medicine of this University. It is based upon the group requirements of the General Science curriculum. English and Chemistry are required in each year. Two years of French or German are prescribed and, for men, two years of Military Science. Mathematics, Psychology, Physics and general and advanced courses in the Biological Sciences complete the subject matter requirements. In semester hours the minimum acceptable number for men is 107, for women 99. Students who have fewer credits, or who lack any required subject, are not eligible to apply for admission to the College of Medicine. Students who complete the three years and decide to enroll for the senior year in General Science must enroll in Mathematics 2 (Calculus).

Students who wish to prepare to become Medical Technologists are advised to enroll in the Pre-Medical curriculum for the first year. The special enrollment, necessary in the second year, is arranged in consultation with the Dean or the Registrar. Students who complete a second year, which must cover English, Language, Bacteriology, Physics, and Quantitative and Organic Chemistry, are eligible for admission elsewhere to a year of apprentice instruction which completes the training.

At the beginning of the third year all Pre-Medical students must rent or purchase an approved physician's microscope for use in the courses in Cytology and Embryology. Microscopes which meet the requirements of these courses and those later given in College of Medicine are rented and sold on both cash and installment plans at the Medical Book

Store. Arrangements can be made to have rentals apply on subsequent purchase.

THE PRE-MEDICAL CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Mathematics 1	4	4
French 1 or 3, or German 1 or 2	3	3
Chemistry 1 or 21	4	5
Botany 1 and Zoology 1	4	4
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2	2	2
French or German	3	3
Chemistry 9 and 10 (Organic)	3	3
Physics 1	5	5
Elective or Psychology 1	3-4	3-4
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE JUNIOR YEAR	1ST HF.	2ND HF.
English (advanced course)	2-3	2-3
Zoology 7 (Embryology) and Botany 8 (Cytology)	4	4
Physical and Quantitative Chemistry	3 or 4	3 or 4
Psychology 1 or Elective	3	3
Electives	4-6	4-6

THE SPECIALIZED CURRICULA

THE BUSINESS CURRICULA

These curricula, established by the late John Heman Converse of Philadelphia, are designed especially to satisfy a demand for a broad specialized training to serve as a foundation for business careers to those who are regularly enrolled. Through expansion of some phases of the work and the curtailing of others it has been possible to carry out more fully the original intentions of the founder.

The basic curriculum is the Business option and it is recommended to those who seek training for a general business career. The Secretarial option is advised for those who wish to prepare to become business or professional secretaries. The Commercial Teaching option includes the specialized training and the courses in Education which are necessary to secure positions as teachers of commercial subjects in business or secondary schools. The degree, received on the completion of any of these options, is Bachelor of Science in Commerce and Economics.

For the earlier years of the curriculum the courses are substantially the same. In the later years the more special subjects are introduced. Secretarial and Commercial Teaching students are required to take an extra secretarial course each year. As these courses are given solely for students regularly enrolled as full-time students in these curricula and are not open to others, there is an extra tuition fee of \$17.50 per semester to cover a part of the expense incident to providing this supplementary training. The only difference between the Secretarial and the Teaching options is that the latter prescribes those courses in Education that are required for teachers' certificates. These hours are open as electives for the secretarial students. It is thus possible to defer the choice until the beginning of the junior year, and in special cases the choice may be deferred until the end of the junior year.

In all modern business, special training is coming to be regarded as more and more necessary. In many quarters the college is looked to for this training. For this there exist very excellent reasons, since with a well-balanced curriculum one may combine the maximum of culture furnishing broader interests and a wider outlook on life with a maximum of special training resulting from carefully directed study in the scientific spirit of various phases of industrial activity. Such a combination is sought in the adjustment of the work.

In all the work of the department prompt attention to all duties will be expected on the part of each student. As success in business rests in a very important way upon regularity, punctuality and systematic attention to all duties, it is very necessary that constant attention be given to these. For this reason the Department insists that all duties required be performed with promptness and care. Regularity in attendance upon all exercises is held as an important requirement of the work.

The quantitative requirements of the curriculum are outlined in the following paragraphs. Modifications may be made with the approval of the head of the department to meet instances of special purpose.

THE BUSINESS CURRICULA

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1, Composition and Rhetoric	2	2
Mathematics 11, Mathematics of Finance.....	4	4
Economics 9, Economic Geography	3	3
French 3, German 2 or Spanish 2	3	3
Political Science 1, American Government.....	3	3
Physical Education 1	1	1
Military Science 1 (Men)	2	2

These subjects are supplemented by Economics 59, Filing (3 hours), and Economics 60, Business Organization and Management (3 hours), for those in the Secretarial and Commercial Teaching options.

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2, English Literature	2	2
Economics 1, Principles	3	3
Economics $\frac{9}{7}$, Economic History	3	3
Economics $\frac{20}{8}$, Business Law and Statistics.....	3	3
Political Science 3, International Relations.....	3	3
Elective	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

These subjects are modified for commercial teaching and secretarial students by substituting Psychology 1, General Psychology, for Political Science 3, International Relations, and by enrollment in Economics 58, Business Correspondence, for the elective.

THE JUNIOR YEAR	1ST HF.	2ND HF.
Economics 110 or 111, Social Economics or Labor Problems	3	3
Economics 12, Accounting	3	3
History 12, Modern European History	3	3
Economics 102, Money and Banking	3	3
Psychology 1, General Psychology	3	3

Students in the Commercial Teaching option defer Economics 102, Money and Banking, taking Education 1, Principles (3 hours), and Education 4, Adolescent Educational Psychology (3 hours).

Students in the Commercial Teaching and Secretarial options add Economics 52, Stenography (10 semester hours), and Economics 56, Typewriting (10 semester hours).

THE BUSINESS SENIOR YEAR	1ST HF.	2ND HF.
Economics 114, Advanced Economics	3	3
Economics $\frac{3}{16}$, Public Finance and Business Administration	3	3
Economics 4, Marketing	3	3
Economics 105, Corporation Finance	3	3
Laboratory Science	4-5	4-5
 THE SECRETARIAL SENIOR YEAR	 1ST HF.	 2ND HF.
Economics 114, Advanced Economics	3	3
Economics $\frac{6}{61}$, Office Management and Secretarial Methods	3	3
Electives	6	6
Economics 53, Advanced Shorthand	5	5
Economics 57, Advanced Typewriting	(5)	(5)

The Commercial Teaching students in the senior year follow the Secretarial enrollment except that the Electives are Economics 102, Money and Banking (6 semester hours), and Economics 63, Principles and Methods in Commercial Education (6 semester hours).

THE CHEMISTRY CURRICULUM

The curriculum in Chemistry is planned to provide a thorough training in the main divisions of chemical science, and in those other studies that contribute especially to understanding and competence in chemical theory and practice.

That it may be broadly informative, and meet more fully individual needs and tastes, the curriculum includes as full a measure of elective studies as justice to its special field allows.

The required contributory studies are confined to the first two years of the curriculum, leaving free for specialization and for election the last years, when experience and maturity give this freedom greatest value. Much of the student's thought and time in the second half of the Senior year are devoted to a simple, but rigorously followed and carefully guided original investigation.

In connection with the courses in Industrial Chemistry, students each year make trips of inspection to other laboratories and to industrial establishments.

The Chemistry Club, an undergraduate organization, and meetings of the Western Vermont Section of the American Chemical Society, often held at the University, increase fellowship and enthusiasm for scientific work.

Graduates of the Department are engaged as teachers of the science in universities and schools, as technical chemists in a wide range of industries, and as men of business in various commercial and industrial undertakings. In manufacturing enterprises that are not definitely chemical, training in an exact science, like chemistry, is recognized as of advantage.

Chemistry laboratories and supply rooms occupy three floors and the basement of the north end of the Williams Science Hall. These laboratories are modern and well equipped for experimental and research work. The department library is conveniently located in this building.

A list of the required courses and of hours free for election in the Chemistry Curriculum are given in the following paragraphs. An outline of each course is found in the Catalogue under Courses of Instruction.

Students of other curricula, who wish to do special work in Chemistry, on consultation may select one of several groups of courses, each group constituting a major in Chemistry. Those taking a major in Chemistry must maintain a favorable standing in the subject.

At the close of the Freshman year, transfer to or from the Chemistry Curriculum is readily made, without loss of credits. Students whose grades in Introductory Chemistry are not C or better at the close of the year are discouraged from entering or continuing the curriculum. Those who become especially interested in chemistry and who show ability in the subject are welcomed.

In addition to its undergraduate courses, the facilities of the Department permit graduate work, leading to the degree of Master of Science. Students have found this further training of great value in meeting the exactions of professional work, and in gaining advanced standing toward earning the degree of Doctor of Philosophy in the larger universities. Correspondence with the head of the Department is invited regarding opportunities for graduate work, and lines of research on which members of the staff are engaged.

CHEMISTRY CURRICULUM

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
Chemistry 1, General Chemistry.....	5	5
English 1, Composition and Rhetoric	2	2
German 11, Elementary and Intermediate	6	6
Mathematics 1, Algebra, Trigonometry and Analytics	4	4
Physical Education 1	1	1
Military Science (Men)	2	2

THE SOPHOMORE YEAR		1ST HF.	2ND HF.
Chemistry 2-3, Qualitative-Quantitative.....	4	4	
Physics 1, General Physics	5	5	
Mathematics 2, Calculus	3	3	
English 2, Literature	2	2	
Elective	3	3	
Physical Education 2	1	1	
Military Science 2 (Men)	2	2	
THE JUNIOR YEAR		1ST HF.	2ND HF.
Chemistry 4, Advanced Quantitative	3	3	
Chemistry 104, Physical Chemistry Lectures.....	3	3	
Chemistry 105, Physical Chemistry Laboratory	2	2	
Mineralogy 1, General Mineralogy	3	...	
Geology 5, Engineering Geology .....	...	3
Electives	6	6	
THE SENIOR YEAR		1ST HF.	2ND HF.
Chemistry 8, Industrial	3	3	
Chemistry 111, Organic Lectures	3	3	
Chemistry 112, Organic Laboratory and Thesis	6	6	
Electives	3	3	

THE EDUCATION CURRICULA

THE SECONDARY EDUCATION CURRICULUM

The subjects given in this curriculum are of essential value to students who plan to enter educational work. They also have general cultural value for those who desire to elect subjects in the department. Students in Education will find it desirable to take the course entitled General Psychology before the Junior year, as this subject serves as the basis of the courses in Education.

The department offers a four-year curriculum in Secondary Education for the preparation of teachers for the junior and senior high school, leading to the degree of Bachelor of Science in Education.

Students who have fully satisfied the requirements of the first two years in a group elective curriculum may be permitted to transfer to Junior standing in this curriculum. The degree will be granted after the completion of at least sixty semester hours which must include any requirements not previously passed.

Students wishing to make this transfer should present a request in writing to the Dean before September 1 of the year in which they intend

to make such change. This petition must be approved by the Head of the Department of Education, the Dean of the College from which the student proposes to transfer and the Dean of the College of Arts and Sciences. Such transfer will be permitted only in exceptional cases from the College of Engineering, the College of Agriculture, and the Business Curricula in the College of Arts and Sciences. In all cases the previous academic record must be such as to indicate that the student will profit from this curriculum in Education.

The requirements of the Department of Education are: General Psychology (Psychology 1) *six semester hours*; Principles of Education (Education 1) *three semester hours*; Philosophy of Education (Education 5) *three semester hours*; and History of Education (Education 2) or Educational Psychology (Education 3) *three semester hours*; and High School Administration (Education 6) or Psychology of Adolescence (Education 4) *three semester hours*; Principles and Methods in Secondary Education (Education 7) or other approved course *three semester hours*; Student Teaching (Education 8) or other approved course *three semester hours*; a full course in laboratory science *six to ten semester hours*; two majors and one minor from three departments in the College of Arts and Sciences so chosen as to give the student a suitable preparation to teach these subjects in the secondary schools.

Additional approved electives to give a further preparation in the subjects which the student is preparing to teach and to broaden the general scope of his course will be recommended or required. These electives must bring the number of credits at least to a total of one hundred twenty semester hours exclusive of English 26, Physical Education 1 and 2 and, (for men), Military Science 1 and 2.

Students planning to enter the teaching profession are urged to consult the Department of Education with reference to the selection of courses, as early as possible in their college course. In general students planning to transfer to the curriculum in Education after completing the first two years in any curriculum of the University should complete during those years: two courses in a foreign language, a laboratory course in science, Psychology 1, and a course in either History or Political Science. The Literary-Scientific, Social Science and General Science curricula are so arranged that a student may make these elections and still have freedom to start fulfilling the requirements for a major in Education.

The majors and minors taken should be chosen to correlate with the subjects that occur generally in high school curricula. The departments and subject-matter fields which are recommended are: English; the languages, especially French and Latin; the Sciences; Mathematics; History and certain Social Sciences, especially Political Science and Eco-

nomics. Teachers of Agriculture and Home Economics in the public schools should also be prepared to teach a more general subject. Physical Education is a valuable supplementary major for those who have sufficient interest and ability in that field. The University offers special curricula for those preparing to teach Commercial Subjects and Music.

Any student enrolled in any of the academic colleges may, with the permission of the Dean of the college in which he is enrolled, and of the Professor of Education, be admitted to any of the courses in Education for which he is qualified. He shall retain his standing in the college in which he is enrolled and be entitled to the degree to which it leads.

A course in Student Teaching, using a public school system as a laboratory is a prerequisite to a certificate to teach in most states. While such a course is required for a degree in Education at the University, enrollment in Student Teaching is limited to those: (1) who have declared an intention to teach, (2) who have high scholastic records, (3) who show promise of becoming successful teachers.

While the curricula in Education are designed primarily to meet the requirements for certificates in the State of Vermont it is possible to meet the requirements of many other states if the department is notified prior to the Sophomore year.

SECONDARY EDUCATION CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1, Composition and Rhetoric	2	2
Mathematics 1, Algebra, Trigonometry and Analytics	4	4
French or German	3	3
Restricted Electives	6	6
Physical Education 1	1	1
Military Science (Men)	2	2
 THE SOPHOMORE YEAR	 1ST HF.	 2ND HF.
English 2, Literature	2	2
Foreign Language	3	3
Psychology 1, General	3	3
History	3	3
Electives	4-6	4-6
Physical Education 2	1	1
Military Science 2 (Men)	2	2

The Curricula

THE JUNIOR YEAR	1ST HF.	2ND HF.
Education 1-5, Principles and Philosophy.....	3	3
Education 2, History	3	..
Education 4 or 6, Adolescent Psychology or High School Administration .....	..	3
English Elective	2	2
English 26 .....	..	1
Electives	7-9	7-9
THE SENIOR YEAR	1ST HF.	2ND HF.
Education 7-8, Methods and Practice Teaching	3	3
English Elective	3	3
Electives	9-12	9-12

The electives suggested for the Junior and Senior years are: Art; Botany, especially Botany 14; Chemistry 1 or 21; Economics; Education 9-10; French; Geology; History; Home Economics; Latin; Mathematics; Philosophy, Political Science, Physics, Sociology and Zoology, especially Zoology 14.

THE ELEMENTARY EDUCATION CURRICULUM

This curriculum is offered by the University in cooperation with the Vermont State Board of Education. It is intended to offer an excellent preparation for teaching in the elementary schools. The degree of Bachelor of Education is given by the University of Vermont and State Agricultural College on recommendation of the Head of the Department of Education and the Senate Committee on Degrees.

Students of good moral character who have been graduated from an approved high school and who satisfy the entrance requirements specified by the State Board of Education are eligible for admission if recommended by the school principal.

A student who has satisfactorily completed one year of elementary teacher preparation in this State or the first year in a standard normal school or its full equivalent, may be admitted to sophomore standing, provided the entrance requirements have been met and a satisfactory record presented.

Graduates of the former two-year curriculum, if found qualified, may be admitted to the Elementary Education curriculum in Junior standing. Such students will be given a special enrollment supplementing the courses accepted for advanced credit and will be eligible to receive the degree of Bachelor of Education after satisfactory completion of two years of resident work.

The curriculum in Elementary Education may be modified for students who wish a more highly specialized preparation in other approved fields of study. The free electives included in the outlined curriculum usually provide fully for the supplementary majors desired.

The requirements for teaching certificates in the elementary schools are gradually increasing. In the future professional advancement will be contingent upon the equivalent of four years of preparation and a bachelor's degree. Successful teachers who have earned a degree and are interested in continuing their training may obtain a plan of study after consultation with the Head of the Department.

Students who are unable to spend four consecutive years in preparation for teaching may meet the present minimum for teaching certificates in the elementary schools of Vermont by completing two years of training in this curriculum. In such cases a special two-year enrollment is required and the sequences must be carefully planned in consultation with the Head of the Department of Education.

The State Board of Education allows Vermont students an exemption from tuition payment amounting to two hundred dollars a year provided the student signs an agreement to teach in Vermont for as long a time as the tuition is rebated. The University grants a one hundred fifty dollar scholarship to such students to cover the remainder of the tuition charge of three hundred and fifty dollars. These scholarships are subject to University regulations and are not credited to students who are under warning for low scholastic record or who are on probation for any reason. Students who change to another curriculum in the University or who transfer to another institution or who fail to keep the agreement to teach in Vermont become liable to the refund of all the tuition previously rebated.

Non-residents of Vermont who sign the agreement to teach in this state, may be accepted for enrollment if the quota of one hundred sixty five is not filled by Vermont applicants. Such students receive the credit of two hundred dollars arising from the state scholarship but are liable for the one hundred fifty dollar balance of the tuition charge.

ELEMENTARY EDUCATION CURRICULUM

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
English 1, Composition and Rhetoric	2	2
Education 321, Introduction	3	3
Economics 9, Economic Geography	3	3
Education 330, Penmanship	1	1
Education 328, Hygiene	2	2
Education 337, Principles of Art 1	2	2
Electives	6	6
Education 334, Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
English 2, Literature	2	2
History 14, American History	3	3
Education 335, School Music 1	3	3
Psychology 1, General	3	3
Education 323, Child Literature	1	1
Education 324, Teaching English	2	2
Education 338, Arts Education 2 or	(2)	(2)
Education 340, Mental Hygiene	(3)	(3)
Education 334, Physical Education 2	1	1
Military Science 2 (men)	2	2

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Education 339, Observation and Conference.....	2	2
Education 325, Arithmetic and Methods.....	2	2
Education 322, Reading .....	...	2
Education 336, School Music 2	3	3
Education 1 or 3, Principles or Educational Psychology	3	...
Education 5, Philosophy .....	...	3
English Elective	2	2
Education 344, Educational Sociology	2	2
Education—Health Education	1	1
Electives	3	3

THE SENIOR YEAR

	1ST HF.	2ND HF.
Education 332, Curriculum	6	...
Education 331, Student Teaching .....	..	6
Education 341, Teaching of Art	2	2
English, an advanced course	2	2
Education 334, Physical Education Methods.....	1	1
Electives	5	5

The above curriculum must be rearranged for students who wish to complete certification requirements in less than four years.

THE MUSIC EDUCATION CURRICULUM

The University of Vermont and State Agricultural College offers this four-year curriculum in Music Education leading to the degree of Bachelor of Education. It is recommended to students who have sufficient training and natural musical ability to justify a career in music. Graduates are qualified for positions as instructors and supervisors of music in the public schools of Vermont. The curriculum may be adapted to meet requirements elsewhere.

Students must pass the aptitude tests given by the Department of Music and must satisfy the general admission requirements for the Elementary Education curriculum or for some curriculum offered in the College of Arts and Sciences.

This curriculum is designed to prepare qualified teachers for positions as instructors and supervisors of music. State and University scholarships, covering the entire tuition, are available to Vermont students who were regularly enrolled in this curriculum during the college year 1940-1941. The scholarships will be granted for the normal number of years required for each such student to complete the requirements for the degree. During the year 1941-1942 all students receiving these scholarships will be charged the scheduled rates for the courses in Applied Music which the curriculum requires.

Beginning with the college year 1941-1942 all new enrollments will be liable for the full tuition charge since state scholarships are no longer provided. These students are, however, eligible to apply for such University scholarships as may be available. The charge for Applied Music for students who do not receive state scholarship assistance is billed at one-half the scheduled rates.

MUSIC EDUCATION CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
Music 1, History and Appreciation	3	3
Music 8, Sight-singing, Dictation, Theory.....	2	2
English 1, Composition and Rhetoric	2	2
German 1	3	3
French or History	3	3
Applied Music (two courses)	2-3	2-3
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Music 3, Harmony	3	3
Music 9, Advanced Sight-singing	2	2
English 2, Literature	2	2
German 2	3	3
Psychology 1, General	3	3
Applied Music (two courses)	2-3	2-3
Physical Education 2	1	1
Military Science 2 (Men)	2	2
THE JUNIOR YEAR	1ST HF.	2ND HF.
Music 4, Advanced Harmony	3	3
Education 345, Methods and Practice Teaching	3	3
Psychology 7, Aesthetics or English or Language	3	3
Education 1, 5, Principles and Philosophy	3	3
History of Art 1, 3	2	2
Applied Music (two courses)	2-3	2-3
THE SENIOR YEAR	1ST HF.	2ND HF.
Music 11, Orchestration and Conducting	3	3
Music 10, High School Methods and Practice Teaching	3	3
English or Italian	3	3
Education or Elective	3	3
Music 12, Applied Music Methods	1	1
Applied Music (two courses)	2-3	2-3

THE INDUSTRIAL EDUCATION CURRICULUM

The curriculum in Industrial Education is offered by the University of Vermont and State Agricultural College in cooperation with the Vermont State Board of Education. It is recommended to students who desire to teach and supervise Trade and Industrial courses in secondary schools or in industrial concerns.

The degree, Bachelor of Science in Industrial Education, is awarded by the University of Vermont and State Agricultural College on recommendation of the Head of the Department of Education and Senate Committee on Degrees.

The program provides professional courses to meet the certification requirements for teachers of both Vocational Shop and related subjects

(mathematics, science, and drawing related to the trades) and for teachers of Industrial Arts (shop work offered in the public school as a part of general education rather than specific training for a trade or occupation as a part of vocational education), and courses for the improvement of teachers in service.

While trade experience of at least two years on a journeyman basis is required for those who expect to teach trade shop work, only one year of industrial experience is required for teachers of related subjects and for teachers of industrial arts.

Students may enroll in the Industrial Education curriculum as freshmen or in advanced standing by transfer from the College of Engineering not later than the beginning of the Junior year. Substitutions for courses regularly included in the curriculum must be approved by the Department.

INDUSTRIAL EDUCATION CURRICULUM

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
Math.—Mech. 11, Advanced Algebra.....	2	...
Math.—Mech. 12, Plane Trigonometry.....	2	...
Mathematics—Mechanics 13, Plane Analytics...	...	4
Chemistry 1 or 21, General.....	4	5
Mech. Engineering 11-12, Mechanical Drawing	3	3
General Engineering 1, Introduction.....	2	...
Civil Engineering 10, Engineering Materials.....	...	2
English 1, Composition and Rhetoric.....	2	2
Physical Education 1.....	1	1
Military Science 1 (men).....	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
Math.—Mech. 21-22, Diff. and Int. Calculus....	4	4
Physics 1, General	5	5
Mech. Eng. 23-24, Manufacturing Processes....	2	2
Mech. Eng. 25, Fuels and Combustion.....	3	...
Mathematics—Mechanics 23, Statics.....	...	3
English 2, Composition	2	2
Physical Education 2.....	1	1
Military Science 2 (men).....	2	2

THE JUNIOR YEAR	1ST HF.	2ND HF.
Mech. Eng. 39, Ind. Metallurgy	3	...
Mech. Eng. 33, Specialized Shop Practice.....	2	2
Elec. Eng. 36, Dir. Cur., Circuits and Machines	4	...
Elec. Eng. 37, Alt. Cur., Circuits and Machines	...	4
Education 338, Applied Art.....	2	...
Ind. Ed. 1, Prin. of Vocational Ed.....	1	...
Education 4, Adolescent Psychology.....	...	3
Education 1, Principles	3	.....
Economics 1, Elementary	3	3
Mechanical Engineering 32, Machine Drawing	...	3
Elective .....	.....	3
THE SENIOR YEAR	1ST HF.	2ND HF.
Mech. Eng. 43, Ind. Management.....	3	...
Mechanical Engineering 44, Factory Planning.....	..	3
Education 4, High School Administration.....	..	3
Ind. Ed. 2-3, Methods of Trade Teaching.....	1	1
Industrial Education 4-5, Trade Analysis	1	1
Ind. Ed. 6-7, Prep. of Instructional Materials.....	1	1
Ind. Ed. 8, Teaching Industrial Arts.....	2	2
Ind. Ed. 9, Obs. and Directed Teaching.....	..	3
Mech. Eng. 33, Specialized Shop Practice.....	4	2
Math.—Mech. 6, Mech. of Materials.....	3	..
Forestry 8, Wood Technology	3	3

The College of Engineering

The College of Engineering offers instruction in the three curricula, Civil, Electrical and Mechanical Engineering, each leading to the degree of Bachelor of Science in the field of specialization. Each curriculum includes the general subjects: Mathematics, Chemistry, Physics, Mechanical Drawing, Elements of Electrical Engineering, Mechanics, Engineering Materials, Hydraulics, Economics, English and Contracts.

All freshman and sophomore men are required to complete the two basic courses in Military Science for a total credit of eight semester hours. These credits become an integral part of the record and are counted toward graduation. Two years of Physical Education are required of all students.

Students enrolled in the College of Engineering may become affiliated with their respective national professional engineering societies, the Ameri-

can Society of Civil Engineers, the American Institute of Electrical Engineers and the American Society of Mechanical Engineers, as each of these organizations has authorized a student chapter at the University of Vermont. These student organizations sponsor frequent meetings, the purpose of which is to present an opportunity for students to conduct activities similar to those conducted by members of the national societies. These activities include meetings at which technical papers are presented by students and by engineers who are actively engaged in the profession; attendance at conventions and inspection trips, all of which provide helpful contact with engineering practice and also assist in the development of the qualities of leadership which are so essential for success in the engineering profession.

THE CIVIL ENGINEERING CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 11 and 12, Advanced Algebra .....	...	...
Plane Trigonometry	5	...
Mathematics-Mechanics 13, Plane Analytics.....	...	4
Mechanical Engineering 11-12, Mechanical Drawing	3	3
Chemistry 1 or 21, Inorganic	4	5
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction	1	...
Civil Engineering 10, Engineering Materials.....	...	2
Physical Education 1	1	1
Military Science 1 (Men)	2	2
THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 21-22, Differential and Integral Calculus	4	4
Mathematics-Mechanics 23, Statics .....	...	3
Physics 1, General Physics	5	5
English 2, Composition	2	2
Civil Engineering 20, Plane Surveying.....	5	...
Civil Engineering 21, Route Surveying.....	...	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2
Civil Engineering 22, Summer Engineering Camp, 4 weeks .....	...	(2)

THE JUNIOR YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 31, Kinetics	3	...
Mathematics-Mechanics 32, Mechanics of Materials .....	...	3
Civil Engineering 30, Graphic Statics	3	...
Civil Engineering 31, Bridge Stresses .....	...	3
Electrical Engineering 36, Direct Current Circuits and Machines	4	...
Electrical Engineering 37, Alternating Current Circuits and Machines.....	...	4
Civil Engineering 33, Mapping	2	...
Civil Engineering 32, Reinforced Concrete.....	...	2
General Engineering 2, Economics	3	3
Elective	3	3
Civil Engineering 34, Summer Engineering Camp, 4 weeks .....	...	(2)
THE SENIOR YEAR	1ST HF.	2ND HF.
Civil Engineering 47, Hydraulics	3	...
Civil Engineering 48, Hydraulics Laboratory.....	1	...
Civil Engineering 40, Bridge Design	3	3
Civil Engineering 41, Masonry Construction.....	...	3
Civil Engineering 45-46, Sanitary Engineering	3	3
Civil Engineering 43, Contracts and Engineering Relations	2	...
Civil Engineering 44, Highway Engineering.....	...	3
Civil Engineering 49, Materials Laboratory.....	...	2
Civil Engineering 42, Engineering Construction .....	...	2
Geology 3, Engineering Geology.....	3	...
Elective	2	2

THE ELECTRICAL ENGINEERING CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 11 and 12, Advanced Algebra .....	...	...
Plane Trigonometry	5	...
Mathematics-Mechanics 13, Plane Analytics.....	...	4
Mechanical Engineering 11-12, Mechanical Drawing	3	3
Chemistry 1 or 21, Inorganic.....	4	5
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction.....	1	...
Civil Engineering 10, Engineering Materials....	...	2
Physical Education 1.....	1	1
Military Science 1 (Men)	2	2
THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 21-22, Differential and Integral Calculus	4	4
Mathematics-Mechanics 23, Statics.....	...	3
Physics 1, General	5	5
Electrical Engineering 20, Elements.....	5	...
Electrical Engineering 21, Direct Current Machines .....	...	2
English 2, Composition	2	2
Physical Education 2	1	1
Military Science 2 (Men)	2	2
THE JUNIOR YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 31, Kinetics	3	...
Mathematics-Mechanics 32, Mechanics of Materials .....	...	3
Electrical Engineering 31, Direct Current Machines	4	...
Electrical Engineering 34-35, Alternating Current Theory	3	3
Electrical Engineering 32-33, Direct Current Laboratory	2	2
Electrical Engineering 30, Electronics.....	...	3
General Engineering 2, Economics	3	3
Mechanical Engineering 35, Thermodynamics...	3	...
Mechanical Engineering 38, Power Engineering .....	...	4

THE SENIOR YEAR

	1ST HF.	2ND HF.
Civil Eng. 43, Contracts and Engineering Relations	2	...
Civil Engineering 47, Hydraulics.....	3	...
Civil Engineering 48, Hydraulics Laboratory.....	1	...
Elec. Eng. 40, Electronics Laboratory	1	...
Elec. Eng. 46, Wire Communication	3	...
Elec. Eng. 47, Wire Communication or Elec. Eng. 48, Radio Communication .....	...	5
Elec. Eng. 44-45, Alt. Current Machines.....	3	5
Electrical Engineering 41, Power Transmission .....	...	3
Elec. Eng. 42-43, Alt. Current Laboratory.....	2	2
Elective	3	3

THE MECHANICAL ENGINEERING CURRICULUM

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
Mathematics-Mechanics 11 and 12, Advanced Algebra .....	...	...
Plane Trigonometry	5	...
Mathematics-Mechanics 13, Plane Analytics.....	...	4
Mech. Eng. 11-12, Mechanical Drawing.....	3	3
Chemistry 1 or 21, Inorganic.....	4	5
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction	1	...
Civil Engineering 10, Engineering Materials.....	...	2
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
Math.-Mech. 21-22, Diff. and Int. Calculus.....	4	4
Physics 1, General	5	5
English 2, Composition	2	2
Mech. Eng. 23-24, Manufacturing Processes.....	2	2
Mech. Eng. 25, Fuels and Combustion.....	3	...
Mathematics-Mechanics 23, Statics.....	...	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Mathematics-Mechanics 31, Kinetics	3	..
Mathematics-Mechanics 32, Mechanics of Materials .....	..	3
Mechanical Engineering 32, Machine Drawing ..	..	3
Mechanical Engineering 35, Thermodynamics..	3	..
Mechanical Engineering 36, Internal Combustion Engines .....	..	3
Mechanical Engineering 39, Industrial Metallurgy	3	..
Electrical Engineering 36, Direct Current Circuits and Machines.....	4	..
Electrical Engineering 37, Alternating Current Circuits and Machines.....	..	4
General Engineering 2, Economics	3	3
Elective	2	2

THE SENIOR YEAR

	1ST HF.	2ND HF.
Mechanical Engineering 41, Machine Stress Analysis	4	..
Mechanical Engineering 42, Machine Design.....	..	4
Mechanical Engineering 43, Industrial Engineering	3	..
Mechanical Engineering 44, Factory Planning..	..	3
Mechanical Engineering 45, Air Conditioning..	3	..
Mechanical Engineering 47, Steam Power Plants ..	..	4
Mechanical Engineering 48, Aerodynamics.....	..	3
Mechanical Engineering 50, Seminar.....	..	2
Civil Engineering 47, Hydraulics	3	..
Civil Engineering 48, Hydraulics Laboratory.....	1	..
Civil Engineering 43, Contracts and Engineering Relations .....	..	..
Elective	2	2

The College of Agriculture

The College of Agriculture performs three public functions: it teaches, it investigates, it disseminates. These three lines of work are carried out respectively by the College as such, by the Agricultural Experiment Station and by the Agricultural Extension Service.

The College as such is supported in part by Federal funds received under the provisions of the Acts of 1862, 1890, 1907 and 1935, known respectively as the first and second Morrill Acts, the Nelson Amendment, and the Bankhead-Jones Act. It offers professional curricula in Agriculture and Home Economics.

The Agricultural Experiment Station was established by an act of the State Legislature in 1886. Its activities are supported by sundry Federal and State enactments including the (Federal) Hatch, Adams, Purnell, and Bankhead-Jones Acts of 1887, 1906, 1925 and 1935, and State laws dealing with regulatory work (fertilizer control, feeding stuffs inspection, agricultural seed inspection), and with the conduct of University farm operation and other duties. Its essential function is to conduct research in Agriculture and Home Economics, to administer certain regulatory statutes, and to publish the results of such work.

The Vermont Agricultural Extension Service was established by an act of the State Legislature in 1912. The Extension Service is a cooperative undertaking of the State of Vermont, the College of Agriculture, the United States Department of Agriculture, and the farm bureaus of the several counties of the State. It has a State staff, with headquarters at the University, and a staff of county extension agents in each county. Its purpose is "to aid in diffusing among the people . . . useful and practical information on subjects relating to agriculture and home economics, and to encourage the application of the same." It works primarily with the rural people of the State, including both adults and children.

THE CURRICULA IN AGRICULTURE

It is an aim of this College to impart to its students in agriculture such theoretical and practical training as will serve to fit them successfully to engage in agricultural pursuits, using that term in the widest sense; that is to say, including not only the conduct of operations directly or indirectly related to agriculture, but also of teaching, research or extension in agriculture. While its fundamental concept is to make agriculture and related subjects the main line of effort, the course is broad in its scope and includes mathematics, literature, sciences,

and other cultural studies. The technique of the sundry operations is exemplified, so far as time, means and equipment permit, but the emphasis is laid on lectures, textbook assignments and laboratory work more than upon field operations.

There are five options of the Agricultural curricula each leading to the degree of Bachelor of Science in Agriculture. These options are: the Teaching of Agriculture, Plant Industry, Dairy Production, Dairy Manufactures, and Agricultural Economics. The total number of semester hours required for the degree is one hundred forty-four for men, one hundred thirty-six for women. Men are required to complete two courses in Military Science for a total credit of eight semester hours. This credit becomes an integral part of the record and is counted toward graduation. Two years of Physical Education are required of all students. Advanced Military Science is an acceptable free elective for men who have completed the basic courses subject to the approval of the Professor of Military Science and Tactics.

AGRICULTURAL CURRICULA

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1, Rhetoric and Composition	2	2
Mathematics 1, Algebra and Trigonometry.....	4	..
Botany 3, General Botany	3	3
Chemistry 23, General Inorganic	4	4
Zoology 4, General Zoology .....	..	4
Horticulture 1, Pomology	3	..
Animal and Dairy Husbandry 10, Dairy Manufactures 1 .....	..	3
Physical Education 1	1	1
Military Science 1 (Men)	2	2
THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2, English Literature	2	2
Economics 1, Elementary	3	3
Botany 11, General Microbiology	4	..
Chemistry 15, Agricultural .....	..	3
Agronomy 2, Field Crops	3	..
Animal and Dairy Husbandry 3, Live Stock.....	2	3
Animal and Dairy Husbandry 1, Stock Feeding *Elective .....	..	3
Physical Education 2	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

* Restricted; for P. I. to Botany 4, for D. M. to Animal and Dairy Husbandry 8-9, for Tch. Ag. to Poultry Husbandry 1 (Second Semester). Any one of these may be taken by D. P. and Agl. Econ.

THE TEACHING OF AGRICULTURE OPTION

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Forestry 2, Woodlot Forestry	3	3
Education 1, Principles of Instruction	3	..
Agricultural Education 2, Teaching of Agriculture 1 .....	..	2
Agricultural Engineering 2, Electricity (or Agl. Econ. 3)	3	..
Poultry Husbandry 2, Laying Flock Management	3	..
Electives	2	9

Minimum credit, for this year, 34 semester hours.

THE SENIOR YEAR

	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	..	3
Agricultural Engineering 1, Farm Mechanics.....	3	..
Agricultural Philosophy 1, Agriculture and Civilization .....	..	3
Agricultural Education 3-5, Teaching Agriculture	5	2
Agricultural Engineering 2, Electricity (or Agl. Econ. 3)	3	..
Agriculture Education 10, Teaching Farm Shop	..	3
Elective	1	3

Minimum credit, for this year, 32 semester hours.

THE PLANT INDUSTRY OPTION

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Forestry 2, Woodlot Forestry	3	3
Agronomy 3, Advanced Field Crops (or Zoology 8)	2	..
Poultry Husbandry 2, Laying Flock Management	3	..
Hort. $\frac{4}{5}$ Horticulture, Greenhouse Mgt. (or Hort. 2)	3	3
Genetics 1, Plant and Animal Improvement.....	..	3
Botany 10, Plant Pathology	3	..
Electives .....	..	5

Minimum credit, for this year, 34 semester hours.

The College of Agriculture

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THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics.....	3	...
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Agronomy 3, Advanced Field Crops (<i>or</i> <i>Zoology</i> 8)	3	...
Hort. $\frac{4}{5}$ Horticulture, Greenhouse Mgt. (<i>or</i> <i>Hort.</i> 2)	3	3
Electives	5	5

Minimum credit, for this year, 32 semester hours.

THE DAIRY PRODUCTION OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Poultry 2, Woodlot Forestry	3	3
Poultry Husbandry 2, Laying Flock Manage- ment	3	.
Genetics 1, Plant and Animal Improvement.....	..	3
Animal and Dairy Husbandry 6, Dairy Herd Management (<i>or A. D. H.</i> 7)	3	...
Animal and Dairy Husbandry 5, Advanced Stock Judging .....	..	3
Veterinary Science .....	..	3
Electives	5	2

Minimum credit, for this year, 34 semester hours.

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	..	3
Agricultural Engineering 1, Farm Mechanics.....	3	...
Agricultural Philosophy 1, Agriculture and Civilization .....	..	3
Animal and Dairy Husbandry 6, Dairy Herd Management (<i>or A. D. H.</i> 7)	3	...
Electives	7	7

Minimum credit, for this year, 32 semester hours.

THE DAIRY MANUFACTURES OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Animal and Dairy Husbandry 11/14, Butter, Ice Cream (or A. D. H. 13/12)	3	3
Animal and Dairy Husbandry 15, Judging Dairy Products .....	..	2
Animal and Dairy Husbandry 18, Dairy Plant Operation .....	..	1
Electives	11	8
<i>Minimum credit, for this year, 34 semester hours.</i>		

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	..	3
Agricultural Engineering 1, Farm Mechanics...	3	..
Agricultural Philosophy 1, Agriculture and Civilization .....	..	3
Animal and Dairy Husbandry 11/14, Butter, Ice Cream (or A. D. H. 13/12)	3	3
Electives	7	4
<i>Minimum credit, for this year, 32 semester hours.</i>		

THE AGRICULTURAL ECONOMICS OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Forestry 2, Woodlot Forestry	3	3
Agricultural Economics 3, Agricultural Prob- lems (or Agl. Econ. 3)	3†	..
Electives	7*	10*
<i>Minimum credit, for this year, 34 semester hours.</i>		

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	..	3
Agricultural Economics 4, Agricultural Prob- lems or Agl. Econ. 3)	3	..
Agricultural Philosophy 1, Agriculture and Civilization .....	..	3
Electives	10*	7*
<i>Minimum credit, for this year, 32 semester hours.</i>		

* Not less than 15 hours should be chosen in the fields of Economics, Political Science, Psychology, and Sociology.

† Political Science 7 may be substituted.

THE CURRICULA IN HOME ECONOMICS

The Department of Home Economics offers a liberal education in the fields of household arts and sciences. The curricula are uniform for all students during the freshman year. At the beginning of the sophomore year, the student may choose to pursue any one of the four options.

The General Home Economics option supplies a background which will enable a student to become a better citizen and a more intelligent homemaker. The Home Economics Education option prepares students to teach Home Economics on the secondary level in Vermont and some other states. The Clothing, Textile and Related Art option is especially designed for students who wish to enter the fields of costume design, interior decoration or merchandising. The Food and Nutrition option is designed to prepare students for positions as dietitians in hospitals, colleges or other institutions; as nutrition or food specialists; or for positions as demonstrators, or in commercial food firms.

HOME ECONOMICS CURRICULA

THE FRESHMAN YEAR	1ST. HF.	2ND HF.
English 1, Rhetoric and Composition.....	2	2
Language, Modern or Classical.....	3	3
Chemistry ²² / ₁ , General Inorganic	5	...
Chemistry ¹⁹ / ₁ , Organic .....	...	5
General Home Economics 10, Orientation.....	1	1
Clothing and Textiles 11, Applied Design.....	3	...
Clothing and Textiles 10, Clothing Selection.....	...	3
Household Physics .....	...	3
Botany ⁵ / ₁ , Zoology ³ / ₁	3	...
Physical Education 1.....	1	1

THE GENERAL HOME ECONOMICS OPTION

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Political Science 1, American Government.....	3	3
Economics 1, Elementary.....	3	3
Psychology 1, General.....	3	3
Food and Nutrition 20, Food Preparation.....	3	3
Home and Institutional Management 20, Housing and Equipment.....	3	..
Home and Institutional Management 21, Home Planning and Furnishing .....	...	3
Clothing and Textiles 20, Clothing 1.....	...	3
Clothing and Textiles 21, Textiles.....	3	...
Physical Education 2.....	1	1

THE JUNIOR YEAR	1ST HF.	2ND HF.
Zoology 13, Human Physiology .....	...	3
Botany 13, Household Microbiology	3	...
English, Elective	2	2
Art, History of Art .....	...	3
Food and Nutrition 30, Meal Planning and Service	3	...
Food and Nutrition 32, Diet and Nutrition .....	...	5
Home and Institutional Management 30, Home Management .....	...	3
Clothing and Textiles 30, Clothing 2 .....	...	3
Food and Nutrition 31, Food Economics	2	...
Clothing and Textiles 31, History of Costume	2	...
Elective	6	...

THE SENIOR YEAR	1ST HF.	2ND HF.
History, Elective	3	3
Home and Institutional Management 41, Home Management Practice	3	or 3
Family Relationships 42, Family Relationships	3	...
Family Relationships 40, Child Care .....	...	2
Family Relationships 41, Child Development .....	...	3
Food and Nutrition 43, Child Nutrition	3	...
Clothing and Textiles 41, Children's Clothing .....	...	2
Clothing and Textiles 43, Related Arts	3	...
Electives	3-6	3-6

HOME ECONOMICS EDUCATION OPTION

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Psychology 1, General	3	3
Language, Modern or Classical, or Political Science 1, American Government	3	3
Economics 1, Elementary	3	3
Food and Nutrition 20, Food Preparation	3	3
Home and Institutional Management 20, Housing and Equipment	3	...
Home and Institutional Management 21, Home Planning and Furnishing .....	...	3
Clothing and Textiles 20, Clothing 1 .....	...	3
Clothing and Textiles 21, Textiles	3	...
Physical Education 2	1	1

THE JUNIOR YEAR	1ST HF.	2ND HF.
English, Elective	2	2
Zoology 13, Human Physiology .....	...	3
Botany 13, Household Microbiology	3	...
Education 1, Principles	3	...
Food and Nutrition 30, Meal Planning and Service	3	...
Food and Nutrition 32, Diet and Nutrition .....	...	5
Home and Institutional Management 30, Home Management .....	...	3
Clothing and Textiles 30, Clothing 2 .....	...	3
Restricted Electives	6	...

THE SENIOR YEAR	1ST HF.	2ND HF.
History 3 or 12, European History	3	3
Home and Institutional Management 41, Home Management Practice	3	or 3
Family Relationships 42, Family Relationships	3	...
Family Relationships 41, Child Development .....	...	3
Family Relationships 40, Child Care .....	...	2
Home Economics Education 40, Methods of Teaching	2	1
Home Economics Education 41, Student Teaching .....	...	3
Electives	6-9	3-6

THE CLOTHING, TEXTILE AND RELATED ART OPTION

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Political Science 1, American Government	3	3
Economics 1, Elementary	3	3
Psychology 1, General	3	3
Food and Nutrition 20, Food Preparation	3	3
Home and Institutional Management 20, Housing and Equipment	3	...
Home and Institutional Management 21, Home Planning and Furnishing .....	...	3
Clothing and Textiles 20, Clothing 1 .....	...	3
Clothing and Textiles 21, Textiles	3	...
Physical Education 2	1	1

THE JUNIOR YEAR	1ST HF.	2ND HF.
Zoology 13, Human Physiology .....	...	3
Botany 13, Household Microbiology	3	...
English, Elective	2	2
English 15, Journalism.....	2	2
Art, History of Art.....	...	3
Food and Nutrition 30, Meal Planning and Service	3	...
Home and Institutional Management 30, Home Management .....	...	3
Clothing and Textiles 30, Clothing 2.....	...	3
Clothing and Textiles 32, Textile Analysis.....	2	...
Clothing and Textiles 31, History of Costume.....	2	...
Electives	3	2

THE SENIOR YEAR	1ST HF.	2ND HF.
History, Elective	3	3
Psychology 2, Applied Psychology.....	3	3
Economics 110, Social Economics and Consumption	3	3
Home and Institutional Management 41, Home Management Practice	3	or 3
Clothing and Textiles 43, Related Arts.....	3	3
Clothing and Textiles 42, Costume Design.....	...	3
Clothing and Textiles 40, Advanced Clothing Problems	3	...
Electives	0-3	3-6

THE FOOD AND NUTRITION OPTION

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Political Science 1, American Government.....	3	3
Economics 1, Elementary.....	3	3
Psychology 1, General.....	3	3
Chemistry 20, Chemistry of Foods.....	3	...
Chemistry 24, Biochemistry.....	...	3
Food and Nutrition 20, Food Preparation.....	3	3
Home and Institutional Management 20, Housing and Equipment	3	...
Home and Institutional Management 21, Home Planning and Furnishing.....	...	3
Physical Education 2.....	1	1

THE JUNIOR YEAR	1ST HF.	2ND HF.
Education 3, Educational Psychology.....	3	...
Zoology 13, Human Physiology .....	...	3
Botany 13, Household Microbiology	3	...
English 15, Journalism.....	2	2
English, Elective	2	2
Food and Nutrition 30, Meal Planning and Service	3	...
Food and Nutrition 32, Diet and Nutrition.....	...	5
Home and Institutional Management 30, Home Management .....	...	3
Food and Nutrition 31, Food Economics.....	2	...
Electives	3	3
THE SENIOR YEAR	1ST HF.	2ND HF.
History, Elective	3	3
Home and Institutional Management 41, Home Management Practice	3	or 3
Food and Nutrition 44, Diet in Disease.....	3	...
Food and Nutrition 41, Quantity Food Preparation	3	...
Home and Institutional Management 40, Institutional Management .....	...	3
Food and Nutrition 40, Experimental Food Preparation .....	...	3
Food and Nutrition 42, Food Demonstrations	1	...
Electives	4-8	6-9

The College of Medicine

The College of Medicine of the University of Vermont is one of the oldest institutions of its kind in the United States. For over a century it has served the State and the Nation by sending out its graduates to every part of the Union.

The College of Medicine is a member of the Association of American Medical Colleges and is on the approved list of the Council on Medical Education and Hospitals of the American Medical Association. The excellent record of the graduates of this college and the high standing of the institution is, in large measure, the result of the intensive instruction given in small sections in lecture, laboratory and clinic.

OUTLINE OF THE FOUR-YEAR CURRICULUM

The student studies first the general structure of the body, its embryological development, the functions of the various organs, the chemical processes taking place in the body and the minute structure of the tissues and organs in health.

Then follows consideration of the changes in gross and microscopic anatomy, the variations in the chemical processes and in the functions of organs and tissues under the influence of disease, how such changes give rise to different symptoms and physical signs. The methods of interpreting such findings in arriving at a diagnosis are also considered.

The student then studies the methods of investigating diseases, their causes and prevention, as well as the remedies used in their treatment. The various surgical conditions are considered together with the indications for treatment or operations. Reproduction and development are studied, as well as the management of normal and abnormal labor.

Instruction is given by lectures, demonstrations, recitations, library work, practical courses, laboratory work, clinics and clinical teaching at the bedside, and in the Dispensary. For clinical work the class is divided into small sections. Each student therefore receives the personal attention of the instructor and is given every opportunity for the full use of assigned material.

The work of the First Year includes the study of Anatomy, Physiology, Physiological Chemistry, Histology, Embryology and Neuro-anatomy.

In the Second Year courses are given in Pharmacology, Pathology, Bacteriology and Public Health. Anatomy and Physiology are completed in this year. Medicine, Surgery, Obstetrics, Pediatrics and Psychiatry, find their introduction in the second year's curriculum. Throughout the year every effort is made to integrate the student's work so that the relation of each course to the others is fully apparent and the student is brought to an appreciation of the interrelations of the medical sciences. As a part of this plan, a two-hour period is set aside each week during the second semester for a correlation conference. This is offered as a course in itself and is designed to emphasize interdepartmental studies and interdepartmental relationships. Selected cases are brought forward for study and each of the departments connected with second-year teaching takes part in this assignment.

The work of the Third Year includes further study in Medicine, Surgery, Obstetrics, Pediatrics, Therapeutics, and the various subjects of Medicine and Surgery. Pathology is extended into the third year both as a continuation of the second year's general course and as a course outlining special pathological conditions encountered in clinical medicine. With this in view, emphasis is placed on Surgical Pathology, both gross and micro-

scopic. A course in Radiology extends throughout the year and Physical Therapy is taught during the second semester.

Ward work in Physical Diagnosis is begun in the third year. Students are assigned in small sections to the wards of the hospitals connected with the College. This work, under proper supervision, includes the taking of histories and physical examinations. When the work is completed, the case is presented before the section for criticism by the instructor. Ward work of this nature occupies the afternoon periods of the third year.

The correlation conferences begun in the second half of the second year are continued at weekly intervals throughout the third year. While the principal emphasis in the second-year correlation conferences is placed on problems more related to preclinical subjects, in the third year the conferences go further into clinical problems keeping in close touch, nevertheless, with established bases in preclinical fields. Here again the conference is offered as a joint activity of the departments associated with the class's instruction. The plan follows that of the second year in using selected cases for discussion.

Practical courses in minor surgery and manikin exercises in obstetrics are also offered in the third year.

The Fourth Year is devoted to the study of clinical diagnosis and the treatment of disease, the work being entirely clinical and without didactic teaching:

The class is divided into sections of not more than three students each. These sections are assigned to various services in rotation. These services include Medicine, Surgery, Obstetrics and Pediatrics, together with the Medical and Surgical specialties.

During the year the students are required to attend autopsies under the instruction of the Professor of Pathology, and to make such study of the tissues removed as may be of value in understanding the pathological history of the case.

As a supplement to the clinical work in Burlington, a month's service in Obstetrics is added through residence at the Wesson Maternity Hospital in Springfield, Massachusetts. A month is also spent in Urology, Dermatology and Neurology at the Worcester City Hospital and another month in contagious diseases at the Belmont Hospital in Worcester, Massachusetts. Studies in residence at the State Hospital for mental disease at Waterbury, the State Sanatorium at Pittsford, and the State School at Brandon are included in the fourth year.

The correlation or clinical conference periods of the fourth year are offered through service ward rounds, grand ward rounds, interdepartmental diagnostic conferences, and the clinical-pathological conferences of the hospital staff. While most of the emphasis necessarily is placed on

the clinical aspects of the cases under study, no opportunity is lost for reviewing preclinical fundamentals.

CLINICAL FACILITIES

The normal capacity of the general hospitals in Burlington used by the Medical College is 635 beds. Fully four hundred of these beds are used without restriction by the College for clinical teaching. Arrangements with the Wesson Maternity Hospital in Springfield, Massachusetts, offer an additional 80 beds for obstetrics, together with accompanying facilities for clinical studies of the new-born. Services in urology, dermatology, neurology, and pediatrics at the Worcester City Hospital and in contagious diseases at the Belmont Hospital in Worcester bring corresponding increases in numbers of patients seen.

To these clinical facilities are added those of the outpatient and Dispensary Services which total well over 20,000 cases a year, and those of the State Hospital for mental disease 1,080 beds, at Waterbury, Vermont; the Vermont Sanatorium for tuberculosis and the Caverly Preventorium at Pittsford, 85 and 48 beds respectively; the hospital facilities of the Brandon State School for the feeble-minded, and teaching facilities available through the study of children at the Vermont State Home for Destitute Children and St. Joseph's Orphanage, both in Burlington. The number of children cared for in these latter two institutions totals well over three hundred. Admissions to the medical, surgical, obstetrical, and speciality services used for teaching purposes approximate 12,000 annually exclusive of the special facilities just described. With this amount of clinical material and with a limited enrollment of thirty-two students in each of the two classes doing clinical work, an entirely favorable patient-student ratio obtains.

THE MARY FLETCHER HOSPITAL. This general hospital of 185 beds, 37 bassinets, has been associated with the Medical School for teaching purposes since 1879. All medical and surgical services are represented. The hospital averages well over 5,700 cases yearly, of which fully two thirds are available for teaching purposes through the use of free and part-pay beds, and through the private cases of attending staff men who are connected with the College in a teaching capacity. The hospital carries the approval of the American Medical Association for interne training and for residencies in Medicine, Radiology and Pathology.

THE BISHOP DEGOESBRIAND HOSPITAL. The Bishop DeGoesbriand Hospital, operated by the Sisters of St. Joseph, was completed in 1924. This fully modern and completely equipped institution is located on the west side of the College Green and directly across the corner from the Medical

College. It is fully approved for interne training. Arrangements are now effective in this general hospital for the use of service cases and certain private cases, for third and fourth year teaching. The hospital averages over 3,600 cases annually. Its capacity is 125 beds, of which only 43 are allocated for use by private patients. All services are represented. Members of the attending staff hold teaching positions in the College. Fourth-year men are assigned for two months in residence in this hospital.

THE STATION HOSPITAL, FORT ETHAN ALLEN. The clinical facilities of this hospital are used by the College to the fullest extent. Far from presenting the average type of clinical material to be found in Station Hospitals of the Army, the teaching material afforded the school by this institution through its services to the personnel of Fort Ethan Allen, the regional camps of the Civilian Conservation Corps, and emergency hospitalizations for beneficiaries of the Veterans' Facility and Works Progress Administration, is most varied in its scope. The hospital averages more than 2,415 cases yearly, the average daily census being 100. The hospital's normal capacity is 250 beds. The medical services yield an abundance of the more severely acute forms of respiratory and cardiac infections, together with a fully representative amount of functional diseases of various descriptions. The surgical division, in addition to the usual service, presents a very considerable number of traumatic cases. Members of the commissioned personnel hold appointments in the College and take an active part in the teaching of the sections assigned to their charge. Fort Ethan Allen is within four miles of the College and is easily reached by bus or private car.

THE FANNY ALLEN HOSPITAL, WINOOSKI. This hospital, the smallest of those associated with the College, presents an unusually large and varied amount of teaching material in the 1,150 cases admitted there yearly. Practically all of these are service cases. The attending staff hold teaching appointments in the College and take charge both of third year ward work and fourth year clinical clerkships. Fourth year men assigned to this hospital assume, under close supervision by the teaching staff, the full duties of internes. Two fourth year men are assigned every two months to this hospital. A section of four third year men is assigned there for ward work in physical diagnosis.

THE WORCESTER CITY HOSPITAL, WORCESTER, MASS. Clinical clerkships in urology in both outpatient and inpatient services, including work in the Venereal Disease Clinic of the City of Worcester, are available to sections of three men from the Fourth Year Class assigned to this service on a monthly basis. The service is under the direct supervision of the head of the Division of Urology in the Department of Surgery.

Teaching is carried on by the attending staff in urology, all of whom hold appointments in the College. The urological service averages over 900 inpatient and 3,600 outpatient cases annually. In addition to work in urology, the section at Worcester also carries an assignment in clinical neurology under the tutelage of the attending staff in neurology who, again, are faculty members of the University of Vermont College of Medicine. The work includes both inpatient and outpatient studies. Clinical work in pediatrics and dermatology is available under similar supervision. The student section in Worcester also participates in grand ward rounds and is privileged to attend staff meetings and conferences pertaining to the medical services of the hospital. On assignment to this service, students take up residence for a month in Worcester. As with senior students elsewhere, their work is on a day-around basis.

THE BELMONT HOSPITAL, WORCESTER, MASSACHUSETTS. This is the isolation and tuberculosis hospital of Worcester, Massachusetts. The new building makes the capacity 250 beds. Through the cooperation of its trustees, this hospital affords sections of seniors a study of communicable diseases, including tuberculosis. The instruction is under the direction of the Superintendent, Dr. H. K. Spangler.

OBSTETRICAL SERVICE. The obstetrical service centers around work in Burlington which includes attendance at the maternity ward of the Mary Fletcher Hospital, the prenatal and postnatal clinics held at the Burlington Free Dispensary, and a service at the Elizabeth Lund Home. This work is supplemented by a four weeks' residency as clinical clerks at the Wesson Maternity Hospital in Springfield, Massachusetts. Prenatal and postnatal clinics are attended there also. Sections of three students each spend one month on the Burlington service and one month on the Springfield service.

The service at *The Elizabeth Lund Home* is under the immediate direction of the Professor of Obstetrics of the College of Medicine. Patients are assigned to individual students who, under the supervision of a clinical instructor, act as labor clerks, taking histories, making general physical and obstetrical examinations and keeping detailed records. The labor clerk observes or assists at deliveries. At the Lund Home the student is taught a technic designed to meet obstetrical problems under conditions which might be found in a private home where only limited resources and limited facilities are at hand. Hospital technics are learned in the study of labor cases attended at the *Mary Fletcher Hospital*.

During the past year the Burlington service handled 411 deliveries.

Wesson Maternity Hospital, Springfield, Massachusetts. At the Wesson Maternity Hospital in Springfield, Massachusetts, the work includes services in the prenatal and postnatal clinics maintained by the Hospital;

work in the laboratory, where blood-bank service is particularly emphasized, and supervised participation in deliveries both normal and abnormal. The service averages between fifty and sixty patients per month, the student participating in from fifteen to twenty deliveries in each instance.

PEDIATRICS. The wards of the three local hospitals, St. Joseph's Orphanage, the Vermont State Home for Destitute Children, and the Elizabeth Lund Home, together, furnish a full service in pediatrics. To this is added clinical work at the Caverly Preventorium, and the Brandon State School. Each institution is under the personal direction of a member of the teaching staff.

Care of the new-born, both premature and full term, is included in the service at the Wesson Maternity Hospital in Springfield, Massachusetts. The students on duty there are encouraged to attend well-baby clinics maintained by various organizations in the city. Additional work in clinical pediatrics is available at the Worcester City Hospital.

VERMONT STATE HOSPITAL, WATERBURY. This institution with 1,080 beds is of sufficient capacity to make it possible for the teacher to carry out what is regarded by many as an ideal method of teaching a clinical subject; that is, by arrangement of subject matter by the teacher in such a manner as to give it the order and emphasis it properly deserves, and finding in the hospital at the moment cases illustrative of that subject. Students are given two weeks of intensive instruction, as resident students, by the chief of the staff, who is also Professor of Psychiatry in the College.

THE VERMONT SANATORIUM AND CAVERLY PREVENTORIUM, PITTSFORD. The Vermont Sanatorium for incipient and early tuberculosis with eighty-five beds and the Caverly Preventorium for undernourished children with forty-eight beds, both located at Pittsford, are under the immediate supervision of an officer of the faculty of the College.

In these institutions, in addition to the didactic and clinical instruction that the student receives at the various general hospitals and dispensaries, he is given intensive instruction in tuberculosis, free from the disturbing influences of the larger general institution, and from larger groups of students attending them. The fullest advantage possible is taken of the opportunity for individual or personal teaching, by a teacher of special training in his subject.

BRANDON STATE SCHOOL. Senior sections are assigned for two weeks at the Brandon State School for clinical clerkships in childhood psychiatry. This work is in charge of the state Psychiatrist and is offered to supplement clinics in mental hygiene conducted at the Dispensary in Burlington and clinical clerkships in pediatrics.

DISPENSARIES. Two dispensaries are maintained by the College, one at the Mary Fletcher Hospital and one at 174 Pearl Street in the Howard Relief Society Building. In addition to a complete renovation of the two floors used for outpatient service, the College has at considerable expense re-equipped the services offered there. During the fiscal year ending June 30, 1941, the Dispensary handled 20,085 cases.

As regards clinical teaching, it is to be pointed out that the relatively small number of patients seen is, perhaps, more to the student's advantage than if he were to see four or five times as many. This is all the more true considering the added advantage of his seeing these patients under the guidance of full-time clinical teachers.

The arrangement whereby the Howard Relief Society, the Visiting Nurses Association and the Vermont Children's Aid will continue to be housed in the same building, affords a most useful correlation of medical service work and allows the students attending the services ample opportunity to familiarize themselves with organized welfare work, both State and voluntary.

By arrangement between the Department of Charities of the City and the College, the sick poor, both ambulatory and "bed" cases, are committed to the care of the authorities of the College. A director with a competent staff is in charge of both interne and externe services. Senior students are assigned definite duties in rotation to both interne and outside services, under the personal supervision of a full-time clinical instructor.

Register, 1941-1942

RESIDENT GRADUATE STUDENTS

- *Channing Leach Adams, B.S. (VERMONT), *Physics*, 28 *Williams St.*, Morrisville.
*Beverly Gertrude Alexander, A.B. (RADCLIFFE), *English*, 59 *University Ter.*, East Dennis, Mass.
*Jean Elizabeth Brehmer, PH.B. (VERMONT), *English*, 403 *College St.*, Rutland.
Ellen Frances Birchall, A.B. (REGIS), *Biochemistry*, 333 *S. Prospect St.*, Nashua, N. H.
Mrs. Dorothy Roy Brown, A.B. (MOUNT HOLYOKE), *Economics*, Essex Junction.
Paul Fredric Fenton, M.S. (VERMONT), *Biochemistry*, 40 *University Ter.*, Rochester, N. Y.
†Richard Davis Halligan, B.S. (LEHIGH), *Agronomy*, 235 *Loomis St.*, West Orange, N. J.
*Jack Wiley Hinman, A.B. (GRINNELL), *Chemistry*, 307 *Colchester Ave.*, Gowrie, Ia.
†Edward Suter Irwin, B.S. (VERMONT), *Botany*, 260 *S. Union St.*, Burlington.
†Charles Conrad Larson, B.S. (MINNESOTA), *Forestry*, 43 *N. Willard St.*, Pettibone, N. D.
Herman Alexander LeBow, B.S. (VERMONT), *Physiology*, 41 *Intervale Ave.*, Burlington.
†Arnold Henry Lohmann, B.S. (MINNESOTA), *Dairy Production*, 45 *University Ter.*, Zumbrota, Minn.
Louise Christina Miller, B.MUS. (SYRACUSE), *Education*, 359 *College St.*, Hudson, N. Y.
*Earl Ralph Purchase, A.B. (HOPE), *Chemistry*, 407 *College St.*, Muskegon Hgts., Mich.
*Heath Kenyon Riggs, B.S. (VERMONT), *Mathematics*, *Richmond*, Richmond.
Janet Katherine Shoemaker, A.B. (LYNCHBURG), *English*, 56 *University Ter.*, Plainfield, N. J.
Frank Alphonse Slesinski, M.S. (MASSACHUSETTS STATE COLLEGE), *Biochemistry*, 15 *Adsit Ct.*, Northampton, Mass.
†Kenneth Everson Varney, B.S. (MAINE), *Plant Pathology*, *Upper East Allen St.*, Winooski, Hampden, Me.
*Ethyle Renee Wolfe, A.B. (VERMONT), *Latin*, 71 *Hyde St.*, Burlington.

GRADUATE STUDENTS IN THE SUMMER SESSIONS

- Stella Marion Adams, B.S. (NEW HAMPSHIRE), *Psychology*, Hebron, N. H.
Willard Granville Adams, B.A. (CLARK), *Education*, Holden, Mass.
Howard Scott Allen, B.S. (WOOSTER), *Education*, Xenia, Ohio.
Agnes Leona Allmon, B.S. (KENT STATE), Bergholz, Ohio.
Lillian Andrews, B.S. (VERMONT), *Home Economics*, Richmond, Vt.
Simon Arkin, B.S. (VERMONT), *Education*, Newport, Vt.
Susan Miriam Bachman, A.B. (KEUKA), *Music*, Glens Falls, N. Y.
Alfred James Baldwin, B.S. (VERMONT), *Education*, Rutland, Vt.
Dorothy Hunt Bailey, A.B. (WELLESLEY), *Education*, McIndoe Falls, Vt.
Coletta Barrett, PH.B. (VERMONT), *Latin*, Watertown, Conn.
Sister Mary Jerome Barry, A.B. (VILLANOVA), *English*, Rutland, Vt.
Carl Grafton Bartlett, B.E. (KEENE TEACHERS), *Education*, Concord, Vt.
Roger Freeman Barton, A.B. (NEW HAMPSHIRE), *Education*, Orleans, Vt.
Francis Irving Bean, B.S. (MASSACHUSETTS STATE), *Education*, Rutland, Vt.

* Research Fellow.

† Experiment Station Fellow.

- George Thomas Bennett, A.B. (YALE), *Mathematics*, Ansonia, Conn.
 Barbara Reed Bicknell, A.B. (WELLESLEY), *Mathematics*, South Weymouth, Mass.
 George Kelton Bicknell, B.S. (VERMONT), *Education*, Jeffersonville, Vt.
 Alice May Bisbee, B.S. (BOSTON UNIVERSITY), *History*, Moretown, Vt.
 Willard Henry Blaisdell, B.S. (IOWA STATE), *Education*, Enosburg Falls, Vt.
 Helen Ruth Bolger, B.S.E. (NEW YORK UNIVERSITY), *English*, Montclair, N. J.
 Charles Philip Boright, B.S. (VERMONT), *Education*, Cabot, Vt.
 Lucile Blanchard Boyd, A.B. (BROWN), *English*, Barre, Mass.
 Anna Morgan Brady, B.S.E. (BRIDGEWATER STATE TEACHERS), *English*, New Bedford, Mass.
 Gertrude Elizabeth Branon, PH.B. (VERMONT), *Education*, Burlington, Vt.
 Ernest Conrad Leonard Bratt, A.B. (BOWDOIN), *Education*, Burlington, Vt.
 Lucy Mary Brigham, PH.B. (VERMONT), *English*, Morrisville, Vt.
 James Irwin Brown, A.B. (HOLY CROSS), *Education*, Lee, Mass.
 Frank MacLlewellyn Bryan, A.B. (YALE), *Education*, Montpelier, Vt.
 Jerome Quincy Bullis, B.S. (VERMONT), *Education*, Milton, Vt.
 Winifred Bunnell, B.S. (FARMINGTON STATE NORMAL), *Home Economics*, Phillips, Me.
 John Ralph Burnett, B.S. (VERMONT), *Education*, Cambridge, Vt.
 Anna Viola Burns, B.E. (CASTLETON), *Education*, Fair Haven, Vt.
 Dorothy Ellen Burroughs, B.S. (VERMONT), *Education*, Burlington, Vt.
 Marion Catherine Burroughs, B.S. (VERMONT), *Education*, Burlington, Vt.
 Truman Lloyd Butterfield, A.B. (MIAMI), *Education*, Middlebury, Vt.
 Gertrude Elizabeth Campbell, A.B. (BATES), *English*, Portland, Me.
 May Anne Campbell, PH.B. (VERMONT), *Education*, Lyndon Center, Vt.
 Hazel Margaret Canavan, B.S. (ALBANY STATE TEACHERS), *History*, Fort Edward, N. Y.
 Thomas Henry Candon, A.B. (ST. MICHAEL'S), *Education*, Pittsford, Vt.
 Mary Louise Carroll, PH.B. (VERMONT), *English*, Burlington, Vt.
 Helen Spinney Carter, A.B. (WISCONSIN), *Education*, Fairfax, Vt.
 Margaret Wilcox Carter, A.B. (MIDDLEBURY), *Home Economics*, Barre, Vt.
 Melvin Henry Carter, A.B. (MIDDLEBURY), *Education*, Newport, Vt.
 Jean Clark Chamberlin, B.A. (WELLESLEY), Willimantic, Conn.
 John Walter Chrusciel, A.B. (ST. MICHAEL'S), *Education*, West Rutland, Vt.
 Belle Louise Church, A.B. (VERMONT), *Mathematics*, Richmond, Vt.
 Robert Wellington Chutter, B.S. (VERMONT), *Education*, Pittsford, Vt.
 Elizabeth Alice Clark, A.B. (MT. HOLYOKE), *Philosophy*, Fitchburg, Mass.
 Eugene Henry Clowse, PH.B. (VERMONT), *Education*, Richmond, Vt.
 Ernest Melvin Codding, B.S. (VERMONT), *Education*, Windsor, Vt.
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Arlington Reid Wilcox, B.A. (VERMONT), *Education*, Island Pond, Vt.
Catherine Amy Wilcox, B.S. (VERMONT), *English*, Barton, Vt.
Louise Willis, B.S. (VERMONT), *Education*, Pittsford, Vt.
William Edward Wilson, B.E. (LYNDON STATE NORMAL), *Education*, Lyndonville, Vt.
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Dorothy Elizabeth Woinick, B.S. (BOSTON UNIVERSITY), *Education*, Springfield, Vt.
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Rachel Clare Wursthorne, A.B. (TRINITY), *English*, Troy, Vt.
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THE COLLEGE OF ARTS AND SCIENCES

SENIORS—Class of 1942

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KEY TO ABBREVIATIONS

Ag, Agriculture.	LS, Literary-Scientific.
Bus, Business.	ME, Mechanical Engineering.
CE, Civil Engineering.	Med, Medical.
Ch, Chemistry.	MusEd, Music Education.
Cl, Classical.	PM, Pre-medical.
CT, Commercial Teaching.	Sec, Secretarial.
EE, Electrical Engineering.	SEd, Secondary Education.
EEd, Elementary Education.	SS, Social Science.
GS, General Science.	Sp, Special.
HE, Home Economics.	

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 Monroe Albert Cycleman, *PM*, *Sigma Delta House*, Cedarhurst, N. Y.
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 Janet Agnes Hackwell, *SS*, *Pi Beta Phi House*, Montpelier.

- Leonard Harrington, *SS, Delta Psi House*, N. Wilbraham, Mass.
 Irwin Lee Harris, *PM, Phi Sigma Delta House*, Winsted, Conn.
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 Faye Ruth Lipman, *SS, Grassmount*, W. Hartford, Conn.
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 John Francis McGarry, *PM, Kappa Sigma House*, Proctor.
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 Helen Adele McLean, *CT, Alpha Chi Omega House*, Jamaica.
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 Diantha Smith Geer, *Bus, Redstone*, Bridgeport, Conn.
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 Dorothy Linnea Johason, *GS*, 165 *Loomis St.*, Brooklyn, N. Y.
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 Frances Dolores Juliano, *SEd*, 165 *Loomis St.*, Brooklyn, N. Y.
 Arthur Henry Kehoe, Jr., *Bus*, *S. Converse Hall*, Rutherford, N. J.
 Thomas Joseph Keighley, *PM*, 115 *Walnut St.*, Burlington.
 Stanley Marshal Kemler, *PM*, 410 *S. Winooski Ave.*, Burlington.
 Lawrence Findley Killick, Jr., *SEd*, 26 *Converse Ct.*, Burlington.
 Jeanne Arlene Knickerbocker, *SS*, 61 *N. Prospect St.*, Burlington.
 Leonard Yale Kunken, *Bus*, *Tau Epsilon Phi House*, Lynbrook, N. Y.
 George Howard Larson, *PM*, 74 *Henry St.*, Proctor.
 Helene Ann Levesque, *Cl*, *Allen House*, Northampton, Mass.
 Florence Theodora Levin, *GS*, 159 *Loomis St.*, Brooklyn, N. Y.
 Margaret Elizabeth Theresa Lillie, *SS*, 59 *N. Willard St.*, Bennington.
 Mary Ursula Lindsay, *Sp*, 292 *S. Prospect St.*, Burlington.
 Robert Clare Lockwood, *PM*, *Phi Delta Theta House*, Sparta, N. J.
 Ruth Marie Lyon, *Cl*, 59 *N. Willard St.*, Newport.
 Chester Charles McCabe, *SEd*, *S. Converse Hall*, Shoreham.
 Irene Patricia McCormack, *Cl*, 155 *Loomis St.*, W. Rutland.
 Margaret Curran McElfish, *LS*, 186 *S. Willard St.*, Edgewood, Pittsburgh, Pa.
 James Bishop McGill, *PM*, 206 *Bank St.*, St. Johnsbury.
 Harmon Jack Machanic, *PM*, 372 *Maple St.*, Burlington.
 Eva Dorothea Maidenbaum, *LS*, 20 *Henderson Ter.*, New York, N. Y.
 Gilbert Manheim, *PM*, 396 *S. Winooski Ave.*, Rutland.
 Vincent August Manjoney, *PM*, *N. Converse Hall*, Bridgeport, Conn.
 Joseph Gotman Margolis, *Sp(Bus)*, *Phi Sigma Delta House*, Waterbury, Conn.
 Laura Marion Martin, *Bus*, *Roberts House*, Newark, N. J.
 Harold Albert Mayforth, Jr., *Bus*, *Phi Delta Theta House*, Barre.
 Mary Elizabeth Metcalf, *Sec*, *Pi Beta Phi House*, Waterbury.
 Deane Barbara Moore, *SS*, *Redstone*, Newport.
 Thomas Lawrence Moran, *PM*, 128 *Colchester Ave.*, Bristol, Conn.
 Donald William Morgan, *PM*, 45 *Bayview St.*, Burlington.

- Dorothy Maye Mugford, *Sec*, 86 Buell St., Burlington.
Agnes June Mulholland, *SS*, *Gates House*, Malone, N. Y.
William John Murray, Jr., *Bus*, *Phi Delta Theta House*, Bridgeport, Conn.
Ronald Howard Neal, *PM*, 139 N. Prospect St., Laconia, N. H.
Claire Elinor Nolan, *LS*, 56 N. Willard St., N. Bennington.
Robert Lee Norton, *SS*, 90 Loomis St., Pleasantville, N. Y.
Biagio Palermo, *SS*, *N. Converse Hall*, Waterbury.
Margaret Helen Palmer, *SS*, *Redstone*, Malone, N. Y.
Edward Jameson Pangburn, *Bus*, 34 University Ter., Upper Montclair, N. J.
Marjorie Waite Parker, *SS*, 20 Henderson Ter., Goffstown, N. H.
Gerald Francis Parkhurst, *PM*, *Mary Fletcher Hospital*, Bennington.
Priscilla Read Perkins, *GS*, *Pi Beta Phi House*, Augusta, Me.
Mary Perry, *LS*, *Redstone*, Barre.
Dana Andren Peterson, *Sp (Bus)*, 282 S. Prospect St., Methuen, Mass.
Thomas Reed Powell, Jr., *SS*, 42 Converse Ct., Cambridge, Mass.
Robert Ellsworth Pratt, *LS*, 241 Loomis St., Swanton.
Shirley Geraldine Price, *PM*, 32 University Ter., Springfield.
Samuel Robert Pulleyn, *Bus*, *Phi Delta Theta House*, New York, N. Y.
Marion Barrett Rhoades, *LS*, *Roberts House*, Pittsfield, Mass.
Elizabeth Ann Richards, *SS*, *Allen House*, Woodstock.
Douglas Alexander Riddel, *Bus*, 37 N. Prospect St., Graniteville.
Marie Cleone Riggie, *SEd*, *Claggett House*, Island Pond.
Betsy Roberts, *Sec*, *Kappa Alpha Theta House*, Hamburg, N. Y.
Alice Annette Rowe, *LS*, *Grassmount*, Manchester Center.
Sylvia Marie Runnals, *Bus*, *Redstone*, Montpelier.
Wendell James Ryan, *PM*, 60 Colchester Ave., Graniteville.
George Lewis Saiger, *PM*, 178 Intervale Ave., Burlington.
Ernest Francis St. Mary, Jr., *GS*, *Delta Psi House*, Springfield.
Paul Leonard Schoenberg, *GS*, *Phi Sigma Delta House*, New York, N. Y.
Herbert Dexter Sedlis, *SS*, *Tau Epsilon Phi House*, Brookline, Mass.
Irving George Segel, *Bus*, 15 University Ter., Schenectady, N. Y.
Robert Leonard Shapiro, *PM*, 275 S. Winooski Ave., Springfield, Mass.
Gertrude Helene Sherman, *Cl*, 154 East Ave., Bristol.
Nelson Elliott Simmons, *SS*, *S. Converse Hall*, Ithaca, N. Y.
Dorothy Mae Stevens, *LS*, 252 Colchester Ave., Guildhall.
Mary Louise Strauch, *SS*, 159 Loomis St., St. Johnsbury.
Juna Ruth Swinyer, *LS*, 60 N. Union St., Burlington.
Robert Glenn Templeton, *SEd*, 62 S. Union St., Northfield Falls.
LeGrand Hendry Thomas, *PM*, 519 North St., Burlington.
Ruth True, *Cl*, *Claggett House*, Randolph.
Henry Thomas Tulip, *PM*, 519 North St., Salem, N. Y.
Beverly Louise Turnbull, *SEd*, *Gates House*, Orleans.
Paul Robert Walgren, *Bus*, *Phi Delta Theta House*, W. Hartford, Conn.
Rosemary King Warren, *Cl*, *Roberts House*, Wrentham, Mass.
Robert Stewart Warsaw, *SS*, *Phi Sigma Delta House*, Port Chester, N. Y.
Curtis Cleveland Webster, *GS*, 15 Wilson St., Roxbury.
Sylvia Elizabeth Wellwood, *SS*, 186 S. Willard St., Springfield.
Elizabeth Ann White, *Cl*, *Sanders Hall*, Pittsford.
Robert Francis White, *SS*, 102 Summit St., Needham, Mass.
Virginia Wight, *SS*, 155 Summit St., Bala-Cynwyd, Pa.
Mary Elizabeth Williams, *Sec*, *Roberts House*, Springfield.
Margaret Elizabeth Wilson, *Sec*, *Robinson Hall*, Fair Haven.

Dorothy Rita Wimett, *CT, Robinson Hall*, Pittsford.
 Robert Bradley Winship, *SEd, Community Y. M. C. A.*, Wells River.
 Sumner Root Ziegler, *PM, N. Converse Hall*, Deep River, Conn.
 Barbara Pearl Zimmerman, *SS, Robinson Hall*, Hartford, Conn.

FRESHMAN—Class of 1945

Margery Stuart Anthony, *GS, Slade Hall*, Englewood, N. J.
 Mary Elizabeth Ashe, *LS, Slade Hall*, Nashua, N. H.
 Vincent John Astone, *PM, M. Converse Hall*, Beacon, N. Y.
 Gertrude Barbara Austin, *PM, Robinson Hall*, Brattleboro.
 Malcolm Patrick Austin, *GS, Sigma Nu Lodge*, Long Lake, N. Y.
 Elaine Delia Bailey, *SEd, 186 S. Willard St.*, Waterbury.
 Esther Mae Ballard, *Cl, Claggett House*, Milton.
 Ernest Stanley Barash, *PM, 35 Wilson St.*, Brooklyn, N. Y.
 Alexander Eli Bayer, *PM, 464 North St.*, New Britain, Conn.
 Paula Suzanne Berger, *SS, Slade Hall*, Mt. Vernon, N. Y.
 Adelle Libby Berman, *SS, 302 Main St.*, Burlington.
 Harold Paul Bernstein, *Bus, N. Converse Hall*, Brooklyn, N. Y.
 Russell Bernstein, *PM, M. Converse Hall*, Holyoke, Mass.
 Virginia Lois Bingham, *LS, Allen House*, St. Albans.
 Virginia Dorothy Bingle, *Bus, Warner House*, Lynn, Mass.
 Peter Doelger Bissell, *Ch, N. Converse Hall*, Suffield, Conn.
 Rosaire Wilfrid Bisson, *PM, 60 Colchester Ave.*, Barre.
 Dorris Evelyn Bliss, *145 Robinson Pkwy.*, Plymouth, Mass.
 Lilla Claire Blumberg, *Sec, Grassmount*, New Rochelle, N. Y.
 Eugene Julius Bluto, *PM, 28 Overlake Pk.*, Grand Isle.
 Marie Antoinette Boutin, *SEd, Claggett House*, Bennington.
 Scott William Brown, *GS, Richmond*, Richmond.
 Howard Stanton Bryden, *SS, M. Converse Hall*, Vineyard Haven, Mass.
 Elsie Elizabeth Bulmer, *SS, 145 Robinson Pkwy.*, Glen Cove, N. Y.
 Barbara Amy Burnham, *Sec, Prospect House*, S. Windsor, Conn.
 Lawrence Elliott Burningham, *PM, Lambda Iota House*, Berlin, N. H.
 Richard Grant Buswell, *PM, Community Y. M. C. A.*, Newton, Mass.
 Anna Ruth Capen, *Cl, 252 Colchester Ave.*, Brandon.
 Ruth Anne Carlson, *Sec, 14 University Ter.*, Burlington.
 Torrey Case Carpenter, *Bus, 28 Kingsland Ter.*, Burlington.
 Kathleen O'Neill Chamberlin, *Sp (SS), 11 Hoover St.*, Burlington.
 Wallace Everett Chapin, *SS, M. Converse Hall*, S. Londonderry.
 David Gordon Christian, *PM, 17 Wilson St.*, N. Clarendon.
 Pauline Elizabeth Clarke, *PM, Slade Hall*, Fairfield, Conn.
 Raymond Mark Combs, *PM, N. Converse Hall*, Wallingford, Conn.
 Seymour Milton Comen, *Bus, N. Converse Hall*, New Haven, Conn.
 Herbert Bowen Comings, Jr., *Bus, Phi Delta Theta House*, Richford.
 Frederick Bernard Connor, Jr., *Bus, 67 Greene St.*, Burlington.
 Richard Reuben Conrad, *SEd, 15 University Ter.*, Morrisville.
 Basil Jay Cook, *SEd, 462 S. Willard St.*, Poultney.
 Guy Rudolph Corbosiero, *PM, Sigma Nu Lodge*, Fitchburg, Mass.
 Susanne Elizabeth Corner, *Sec, 83 Brookes Ave.*, Brooklyn, N. Y.
 Paul Herbert Crandall, *PM, Essex Junction*, Essex Junction.
 Emma Adelaide Craven, *SS, Warner House*, Philadelphia, Pa.
 Ann Crocker, *GS, 83 N. Willard St.*, Foxboro, Mass.

- Florence Elizabeth Cudworth, *LS*, 50 *Greene St.*, Brattleboro.
Lael Thelma Cutler, *SS*, *Robinson Hall*, Quincy, Mass.
Elizabeth Mae Dahlgren, *SS*, *Warner House*, Bristol, Conn.
Dorothy Clark Dillon, *Cl*, 388 *Pearl St.*, Burlington.
Ralph Dettmer Divine, *Ch*, 55 *University Ter.*, Waterbury.
Frances Ferguson Donahue, *SS*, *Redstone*, Pearl River, N. Y.
Margaret Clarke Donahue, *SEd*, *Redstone*, Pearl River, N. Y.
Harris Kenneth Drury, Jr., *Ch*, *Essex Junction*, Essex Junction.
Rose Sophie Eisman, *GS*, 20 *Henderson Ter.*, Jersey City, N. J.
Frank Oscar Eklund, *PM*, *M. Converse Hall*, Rutland.
Richard McNair Evans, *SS*, 261 *S. Prospect St.*, Burlington.
William Thomas Fagan, Jr., *PM*, 37 *N. Prospect St.*, Rutland.
Betty Doris Farnsworth, *SS*, *Slade Hall*, Morristown, N. J.
Florence Elizabeth Favreau, *SEd*, 48 *Colchester Ave.*, W. Townshend.
Louis Fishman, *Ch*, 114 *Archibald St.*, Burlington.
Alice Flemming, *Sec*, *Gates House*, Lonsdale, R. I.
Sarah-Jo Flournoy, *GS*, 83 *Brookes Ave.*, Kenmore, N. Y.
Richard Harold Flynn, *SS*, *Phi Delta Theta House*, N. Adams, Mass.
Howard David Frank, *SS*, 190 *Loomis St.*, Burlington.
Judith Lee Gilbert, *LS*, *Sanders Hall*, Dorset.
Joan Goldbloom, *SS*, *Robinson Hall*, Brooklyn, N. Y.
Newton Selig Goldman, *SS*, *S. Converse Hall*, Brookline, Mass.
Irving Goldstein, *Bus*, *S. Converse Hall*, Mountaintdale, N. Y.
Martin Goodman, *PM*, *N. Converse Hall*, Haverhill, Mass.
Norton Henry Goodsell, *PM*, *Delta Psi House*, S. Hero.
Gerald Henry Greemore, *SS*, *Winooski*, Winooski.
Guy Andrews Hamlin, *PM*, *M. Converse Hall*, Brushton, N. Y.
Fred Arthur Harrington, *PM*, 64 *Hungerford Ter.*, Rutland.
Robert Patrick Harrington, *PM*, *Sigma Alpha Epsilon House*, Springfield.
Florence Hecht, *LS*, 159 *Loomis St.*, Brooklyn, N. Y.
Peter R. Heilbroner, *Bus*, *N. Converse Hall*, New York, N. Y.
Sylvia Jane Hendershot, *LS*, *Gates House*, White Plains, N. Y.
Francis Gaonico Hewitt, *Bus*, 69 *Mansfield Ave.*, Montclair, N. J.
Shirley Tucker Hibbard, *Cl*, *Warner House*, New Britain, Conn.
Hope Hinman, *SEd*, 83 *N. Willard St.*, Haverhill, Mass.
Lawrence Carroll Holland, *PM*, 12 *Loomis St.*, Barre.
Jeanne Trowbridge Hotchkiss, *SS*, *Slade Hall*, New Preston, Conn.
Robert Burnham Howard, Jr., *SS*, *S. Converse Hall*, Independence, Mo.
Joan Marie Howlett, *PM*, *Prospect House*, Little Neck, N. Y.
Donald Walter Humphreys, *PM*, *N. Converse Hall*, Bennington.
Virginia Mary Hunt, *GS*, 83 *N. Willard St.*, Rutherford, N. J.
Frances Ingalls, *PM*, *Robinson Hall*, Pelham Manor, N. Y.
Ruth Dorothy Jepson, *Sec*, *Warner House*, Walpole, Mass.
Ruth Kimball Jordan, *SEd*, 449 *S. Prospect St.*, Burlington.
Beatrice Arleen Kantor, *Sec*, 83 *Brookes Ave.*, Rutland.
Sherman Joseph Katz, *Bus*, 21 *N. Williams St.*, W. Hartford, Conn.
Richard Kaufman, *Bus*, *Phi Sigma Delta House*, Pittsfield, Mass.
Bernard Marvin Kaye, *PM*, *M. Converse Hall*, Brandon.
David Sherwood Kellogg, *PM*, *Sigma Phi Place*, Newtonville, Mass.
Robert Walker Ker, Jr., *Bus*, *S. Converse Hall*, Waterbury, Conn.
Ray Fordham Knight, *Bus*, *S. Converse Hall*, Fort Benning, Ga.
Freda Koble, *GS*, 83 *N. Willard St.*, Witherbee, N. Y.

- Thelma Marie LaCross, SS, *Claggett House*, Chester Depot.
 Marion Crystal Lawson, PM, *Robinson Hall*, Stony Point, N. Y.
 Jack Matthew Leavy, Bus, *Pbi Sigma Delta House*, Brooklyn, N. Y.
 William Jack Lederman, PM, 25 *Wilson St.*, Revere, Mass.
 Irving Levine, PM, 212 *Park St.*, Burlington.
 Bernice Lieberman, LS, *Prospect House*, Medford, Mass.
 Bernhard Rutherford Lippman, Bus, N. *Converse Hall*, Plainfield, N. J.
 James Oliver Lobdell, PM, 31 *Robinson Pkwy.*, Fairfield, Conn.
 Dorothy Margaret Loughery, PM, *Slade Hall*, New Haven, Conn.
 Phyllis Elmira Lowe, Sec, 83 *Brookes Ave.*, Milton, Mass.
 Peggy Marie Lucas, GS, *Robinson Hall*, Washington, D. C.
 Laurence Lyerly, Bus, N. *Converse Hall*, W. Orange, N. J.
 John Andrew McLaughlin, Jr., SS, M. *Converse Hall*, Florence.
 Seymour Ralph Magnus, PM, 25 *Wilson St.*, Chelsea, Mass.
 William Matthew Mahar, PM, 38 *Bradley St.*, Fair Haven.
 Donald Karl Maher, SEd, 112 *Adams St.*, Newfane.
 Mary Constance Manahan, SEd, *Warner House*, St. Albans.
 Gordon Manson, PM, 79 S. *Willard St.*, Burlington.
 Judith Baird Marquis, GS, *Prospect House*, Flushing, N. Y.
 Patricia Shannon Maxfield, PM, 83 N. *Willard St.*, New Hartford, Conn.
 Richard Sheldon Merriam, PM, 20 *Brookes Ave.*, Rochester.
 William Randal Merchon, PM, S. *Converse Hall*, Stamford, Conn.
 Robert Blondin Michaud, Bus, 92 *Grant St.*, Burlington.
 Malcolm Arnold Mickler, Bus, N. *Converse Hall*, Providence, R. I.
 Marcia Alger Miller, SS, 186 S. *Willard St.*, Claverack, N. Y.
 Stephen Gates Moore, SS, 8 N. *Williams St.*, Burlington.
 Esther Helen Munroe, SEd, *Allen House*, Montpelier.
 Marion Hilda Nelson, SS, 151 *Loomis St.*, Burlington.
 Robert John O'Hearn, Bus, S. *Converse Hall*, N. Adams, Mass.
 Elaine Annette Oling, Sec, 83 N. *Willard St.*, Brooklyn, N. Y.
 Richard Wallace Page, SS, 316 S. *Union St.*, Burlington.
 June Shirley Parker, Sec, *Slade Hall*, Fanwood, N. J.
 John Cochrane Patten, PM, S. *Converse Hall*, Claremont, N. H.
 Leonard Paul, GS, *Pbi Sigma Delta House*, Hamden, Conn.
 Houghton Dean Pearl, PM, 154 *Summit St.*, Burlington.
 Katherine Shedd Perry, SS, 83 N. *Willard St.*, E. Greenwich, R. I.
 John Hollister Perry-Hooker, PM, 25 *Brookes Ave.*, Wells River.
 Jane Elizabeth Pfeiffer, SS, *Warner House*, Perth Amboy, N. J.
 Jeanne Phillips, Bus, *Warner House*, Milford, Pa.
 Janet Alice Pike, PM, 262 *Pearl St.*, Burlington.
 John Frederick Powers, Bus, 307 *Pearl St.*, Burlington.
 Janice Elaine Preston, Sec, 166 *Summit St.*, Burlington.
 Francis Xavier Prior, Ch, N. *Converse Hall*, Springfield, Mass.
 Armonie Monica Rasines, Sec, *Warner House*, Barre.
 John Earle Rickert, SEd, 433 S. *Union St.*, N. Caldwell, N. J.
 Doris Jeanne Rindler, SS, 186 S. *Willard St.*, New York, N. Y.
 Betty Manning Ritchie, Sec, *Prospect House*, Glen Rock, N. J.
 Charlotte Esther Robinson, PM, 186 S. *Willard St.*, Accord, N. Y.
 Philip Edwin Robinson, SS, 15 *Ludwig Ct.*, Burlington.
 William Egbert Robinson, GS, *Lambda Iota House*, Bellows Falls.
 Marie Josephine Roller, Cl, *Allen House*, Bridgeport, Conn.
 Virginia Elizabeth Rose, SS, *Gates House*, Bellows Falls.

Malcolm Rosen, *Bus, M. Converse Hall*, New Haven, Conn.
 Marjorie Ruth Rubin, SS, 20 *Henderson Ter.*, Brockton, Mass.
 Harold Alanson Sample, *SEd*, 60 *Colchester Ave.*, Bethel.
 Ruby Alice Sanderson, *LS*, 83 *N. Willard St.*, Winsted, Conn.
 Edna Urania Scheu, *PM*, 145 *Robinson Pkwy.*, Sea Cliff, N. Y.
 Calleen Stuckates, *Sec*, 442 *S. Winooski Ave.*, Burlington.
 Norman Lewis Seltzer, *GS*, *S. Converse Hall*, Brookline, Mass.
 Norman Sidney Sena, *Bus, M. Converse Hall*, Waterbury, Conn.
 Anita Ruth Sheldon, *Sec*, 83 *N. Willard St.*, Rochester, N. Y.
 Gerard Isaac Sillman, *GS, M. Converse Hall*, New Haven, Conn.
 Margaret Devore Simonson, SS, 83 *Brookes Ave.*, Rock Island, Ill.
 Beatrice Hazel Small, *Bus*, 153 *Summit St.*, Burlington.
 Wayne Douglas Smart, *PM*, 10 *Lafayette Pl.*, Laconia, N. H.
 Charles Plympton Smith, III, *Bus, Delta Psi House*, Burlington.
 Robert Raymond Smith, SS, 106 *Colchester Ave.*, Springfield.
 Jack Sohn, SS, *S. Converse Hall*, Bloomfield, N. J.
 Leo Bernard Spear, *Bus, Essex Junction*, Essex Junction.
 Michael Aristotle Spylios, *PM*, 103 *Loomis St.*, Fitchburg, Mass.
 Vesta May Stevens, *Cl, Allen House*, Mystic, Conn.
 Robert Louis Stevenson, SS, *M. Converse Hall*, Lynn, Mass.
 Doris Elizabeth Stewart, *PM*, 83 *N. Willard St.*, Schenectady, N. Y.
 Janet Eva Stimpson, SS, *Warner House*, Cape Cottage, Me.
 Konrad Howard Stokes, *GS*, 41 *University Ter.*, Waitsfield.
 Harold Stroyman, SS, *Tau Epsilon Phi House*, Chelsea, Mass.
 Karl Whitman Switzer, *Bus, N. Converse Hall*, Waban, Mass.
 Saturnina Helena Szabolinski, *Sec, Allen House*, Springfield.
 Joseph Tenopyr, Jr., *PM, S. Converse Hall*, Brooklyn, N. Y.
 Beatrice Marjorie Thompson, *LS*, 145 *Robinson Pkwy.*, W. Hartford.
 Gail Thompson, *Sec, Slade Hall*, Worcester, Mass.
 Mary Jane Thornton, *LS, Prospect House*, Petersburg, Va.
 Benjamin Underhill Vail, *GS*, 41 *University Ter.*, St. Albans.
 Annette Phoebe von Paulsen, *PM, Slade Hall*, Cambridge, Mass.
 Philip Abraham Waldman, *Cb, N. Converse Hall*, Newton Center, Mass.
 Melvin Wallshain, *PM*, 35 *Wilson St.*, Brooklyn, N. Y.
 Richard Morris Waters, SS, *M. Converse Hall*, Brookline, Mass.
 Jean MacIver Watson, *LS, Sanders Hall*, S. Barre.
 Alan Cruett Weess, *Bus, M. Converse Hall*, Braintree Highlands, Mass.
 Kenneth James Wellman, *PM*, 128 *Colchester Ave.*, Ludlow.
 Marjorie Lucille Westney, *PM, Prospect House*, Acutney.
 David Bayley Wheeler, SS, 43 *N. Willard St.*, Morrisville.
 Hugh Derwood Whitham, *PM*, 60 *Colchester Ave.*, S. Royalton.
 John Keen Williams, *Bus, S. Converse Hall*, Landgrove.
 Beverly Margaret Woods, *SEd*, 349 *College St.*, Burlington.
 Christopher Lovell Workman, *GS, Essex Junction*, Essex Junction.
 Howard L. Zauder, *PM, M. Converse Hall*, Brooklyn, N. Y.

UNCLASSIFIED

John Joseph Albani, B.S., *Sp (PM)*, 34 *University Ter.*, Northfield.
 Gerhard Theodor Beck, *Sp (PM)*, 38 *Silver Ct.*, Rutland.
 Ernest Conrad Leonard Bratt, Jr., A.B., *Sp*, 43 *Shelburne Rd.*, Burlington.
 Sarah Ann Brigham, B.E., *Sp*, 448 *North Ave.*, Burlington.

- Henri Joseph Burno, *Sp*, 34 *University Ter.*, Malone, N. Y.
 Anne Putnam Clark (Mrs.), B.E., *Sp*, 36 *Henry St.*, Burlington.
 Ruth Ann Crowley, *Sp*, 20 *Hungerford Ter.*, Burlington.
 Lionel Stephen Destremps, *Sp*, *DeGoesbriand Hospital*, Fall River, Mass.
 Edward Oscar Eaton, B.S., *Sp*, Waitsfield.
 Wilfred Theodore Reed Elliott, B.S., *Sp (PM)*, 196 S. *Union St.*, St. Johnsbury.
 Andrée Faber, *Sp*, 380 *Pearl St.*, Burlington.
 Wendell Earl Fitts, *Sp (PM)*, 40 *University Ter.*, Burlington.
 John Henry Fuller, *Sp (PM)*, 24 *Brookes Ave.*, Burlington.
 Helen Vaughn Horton, *Sp*, 125 S. *Willard St.*, Brooklyn, N. Y.
 Delbert Murray Kimball, *Sp (PM)*, 83 N. *Union St.*, Burlington.
 Paul Guy Lindsay, *Sp*, 228 *Maple St.*, E. Barret.
 Kathleen Leora McFeeters, *Sp*, *Robinson Hall*, Franklin.
 George Hubert Nicholson, A.M., *Sp*, 33 *Prospect Hill*, Burlington.
 Harold Gordon Page, B.S., *Sp*, 89 N. *Prospect St.*, South Ryegate.
 Marjorie Louise Perrin, A.B., *Sp*, 25 *Prospect Hill*, Burlington.
 Marjorie Raula Ramsey, A.B., *Sp*, *Winooski*, Winooski.
 Marion Louise Towle, B.S., *Sp*, 53 S. *Winooski Ave.*, St. Johnsbury.
 Samuel Clayton Withers, Jr., A.B., *Sp*, 281 *St. Paul St.*, Barton.

THE COLLEGE OF ENGINEERING

SENIORS—Class of 1942

- Leonard Stanley Berman, *EE*, 121 *Loomis St.*, Brookline, Mass.
 Challis Irvin Clausing, *EE*, *Essex Center*, Essex Center.
 Katharine Clement Holden, *CE*, *Kappa Alpha Theta House*, Burlington.
 Harvey Hart Hubbard, *EE*, *Delta Psi House*, St. Albans.
 Matthew Raymond Kallman, *ME*, 15 *Adsit Ct.*, Woodmere, Long Island, N. Y.
 Mitchell Franz Lambert, *EE*, 38 *Latham Ct.*, Barre.
 Frank Eugene McPherson, *EE*, *Sigma Nu Lodge*, Roslindale, Mass.
 Robert Arthur Magnant, *EE*, 60 *Colchester Ave.*, Franklin.
 Allen Chandler Moore, *ME*, *Sigma Phi Place*, Burlington.
 Donald Lincoln Moran, *EE*, *Sigma Nu Lodge*, Jericho.
 Rollin James Parker, *EE*, *Essex Junction*, Essex Junction.
 Robert Douglas Paterson, *CE*, *Delta Psi House*, Barre.
 William Lisle Potter, *ME*, *Phi Delta Theta House*, Bridgeport, Conn.
 Donald Homer Prior, *EE*, 38 *Converse Ct.*, Burlington.
 Donald Nilburn Sheldon, *ME*, N. *Converse Hall*, W. Springfield, Mass.
 James Humphrey Stephen, *CE*, *Sigma Phi Place*, Copper Cliff, Ontario, Canada.
 George Hazen Stickney, *EE*, 209 *Colchester Ave.*, E. Thetford.
 Sigmund Joseph Sysko, *EE*, 60 *Colchester Ave.*, Bellows Falls.
 Harry Abel Way, II, *ME*, 216 S. *Prospect St.*, Burlington.

JUNIORS—Class of 1943

- Ronald Rossi Bielli, *EE*, 62 S. *Union St.*, Barre.
 Silvio Anthony Cerutti, *ME*, 56 *Colchester Ave.*, Plainfield.
 William Tyler Chapin, *EE*, *Essex Junction*, Essex Junction.
 Philip James Chesarone, *CE*, *Alpha Tau Omega House*, Waban, Mass.
 Joseph Edward Corbett, *ME*, *Kappa Sigma House*, N. Tonawanda, N. Y.

George Forrest Daly, Jr., *ME*, 106 Colchester Ave., Hyde Park.
 Robert Carlton Darling, *CE*, S. Converse Hall, Campello, Mass.
 Arthur Brookins Delano, Jr., *CE*, Sigma Nu Lodge, Shoreham.
 James Kilman Duncan, *ME*, 80 N. Willard St., Montpelier.
 Robert William Earley, *EE*, 86 N. Union St., Burlington.
 Roy Gordon Hamilton, Jr., *ME*, 37 N. Prospect St., Williamstown.
 John Prescott Hoyt, Jr., *ME*, Sigma Nu Lodge, Milton.
 Morris Wellesley Kenfield, *ME*, 37 Russell St., Rutland.
 John Raymond Landry, Jr., *ME*, Sigma Nu Lodge, Rutland.
 Malcolm Frederic John Lavelle, *ME*, 276 North St., Burlington.
 Samuel George Levin, *ME*, 10 Hungerford Ter., Burlington.
 Thomas Alwin McCormick, *ME*, 155 Loomis St., Burlington.
 Russell Marshall, *EE*, 28 Converse Ct., N. Adams, Mass.
 Ross Buchanan Newton, *ME*, 106 Colchester Ave., Hyde Park.
 Edwin Joseph O'Connell, *ME*, 198 King St., W. Springfield, Mass.
 Harry Neal Parris, *ME*, 206 Bank St., Ashland, Mass.
 Harold Arthur Pease, *ME*, 43 Fletcher Pl., Forestville, Conn.
 Murray Lincoln Riggs, *EE*, Richmond.
 William James Stetson, *CE*, Colchester.
 Mead Ferrin Stevens, *ME*, 505 North St., Island Pond.
 Robert Sylvanus Stockwell, *CE*, Delta Psi House, Hartford.
 Richard Leslie Swift, *ME*, Kappa Sigma House, Fair Haven.
 James Harrington Tennien, *ME*, 82 Hungerford Ter., Pittsford.
 Howard Cadmus Vreeland, *ME*, Sigma Alpha Epsilon House, Rutherford, N. J.
 Clarence Edward Wade, *EE*, 60 Clarke St., St. Albans.
 Peter Waterman, *EE*, 34 Henderson Ter., Hartford, Conn.
 Robert Lyons Williams, *EE*, 34 Elmwood Ave., Burlington.

SOPHOMORES—Class of 1944

Monroe Barnes Allen, *ME*, 385 S. Willard St., Burlington.
 James Merrill Aseltine, *ME*, Williston.
 Bartholomew David Barry, Jr., *CE*, 206 Bank St., Methuen, Mass.
 Robert William Bennett, *ME*, M. Converse Hall, Orleans.
 Frederick Milton Boardman, *CE*, Delta Psi House, St. Albans.
 Edward Stuart Boyden, *ME*, 515 North St., Burlington.
 Howard Julian Carpenter, *ME*, 243 Colchester Ave., S. Royalton.
 Charles Ellsworth Carver, Jr., *CE*, 33 Buell St., S. Hero.
 Donald Lyndon Clark, *EE*, 22 Wilson St., Waitsfield.
 Harry Eastwood Crossley, Jr., *ME*, 5 Scarff Ave., Burlington.
 Robert McBurney Curtis, *ME*, 39 Brookes Ave., Middlebury.
 Collis Perry Gill, *CE*, 243 Colchester Ave., Middlebury.
 John Winston Goodrich, *ME*, 515 North St., Montpelier.
 George Jean Holden, Jr., *EE*, 257 S. Union St., Burlington.
 Hilton Walter Jones, *EE*, 368 St. Paul St., Burlington.
 Rudolph Harbison Kempter, Jr., *ME*, 80 N. Union St., Burlington.
 Webster Oscar Krupp, *ME*, 190 North Ave., Burlington.
 Martin Wakefield McLaren, *EE*, 26 Fletcher Pl., E. Ryegate.
 Mark Linwood McLean, *ME*, 567 St. Paul St., Jamaica.
 Andrew Clement Mongeon, *ME*, Winooski.
 Marion Fairbanks Nelson, *ME*, Alpha Xi Delta House, Montpelier.
 Robert Francis O'Grady, *EE*, Essex Junction, Essex Junction.

George Emmett Owens, *CE*, 82 *Hungerford Ter.*, Ludlow, Mass.
 Wayne Harold Page, *EE*, 106 *Colchester Ave.*, Hyde Park.
 Bradford Marr Perkins, *CE*, 80 *N. Willard St.*, Montpelier.
 Franklin Kelley Pierce, *CE*, 12 *Weston St.*, Montpelier.
 Robert Ralston Pond, *ME*, 4 *University Rd.*, Burlington.
 John Walter Reed, *ME*, 206 *Bank St.*, Oakfield, N. Y.
 Merle Congdon Reynolds, Jr., *CE*, 232 *Main St.*, W. Dennis, Mass.
 William Salmon, *ME*, *Sigma Phi Place*, N. Bennington.
 Betty Eldridge Smith, *ME*, *Alpha Chi Omega House*, Jackson Heights, N. Y.
 Robert Paul Tarshis, *ME*, 74 *Caroline St.*, Westmount, Que., Canada.
 Calvin Warren Tooles, *CE*, 15 *Catherine St.*, Burlington.
 Robert Gideon Turner, Jr., *ME*, *M. Converse Hall*, Torrington, Conn.
 Robert Everett Waldo, *ME*, 73 *Charlotte St.*, Burlington.
 John Wheeler Williams, *ME*, *Phi Delta Theta House*, Northampton, Mass.

FRESHMAN—Class of 1945

Neill Carlton Aiken, *ME*, *M. Converse Hall*, Georgetown, Mass.
 Charles Edgar Banghart, *ME*, *M. Converse Hall*, Douglaston, Long Island, N. Y.
 Melvin Carl Blodgett, *ME*, 127 *Mansfield Ave.*, St. Johnsbury.
 James Fred Clarke, III, *CE*, *Community Y. M. C. A.*, Rensselaer, N. Y.
 Gordon Sullivan Cochran, *ME*, *S. Converse Hall*, Chelmsford, Mass.
 LaRoy Harrison Danyow, Jr., *CE*, 139 *N. Prospect St.*, Enosburg Falls.
 Donald Ivan Davis, *ME*, 127 *Mansfield Ave.*, Concord.
 Marcelino Diez, *ME*, 243 *Colchester Ave.*, Barre.
 David Francis Douton, *CE*, *N. Converse Hall*, W. Hartford, Conn.
 Richard Kay Earley, *ME*, 86 *N. Union St.*, Burlington.
 Malcolm Lockwood Eddy, *ME*, 231 *Maple St.*, Burlington.
 Richard Whitcomb Ellis, *CE*, 24 *Loomis St.*, S. Royalton.
 Lewis Richard Fisher, *EE*, 203 *S. Winooski Ave.*, Hardwick.
 Paul Victor Fraser, *CE*, 37 *Elmwood Ave.*, Montpelier.
 Gerald Gershaw, *CE*, *Phi Sigma Delta House*, Brooklyn, N. Y.
 Stanley Harold Goldman, *ME*, 15 *Adsit Ct.*, Brooklyn, N. Y.
 Stuart Foster Haven, *ME*, *M. Converse Hall*, Vergennes.
 Arthur Clement Holden, *CE*, 433 *S. Union St.*, Burlington.
 Robert Arthur Humphrey, *EE*, *S. Converse Hall*, Needham, Mass.
 Winston Richmond Jacobs, *ME*, *Sigma Phi Place*, Brattleboro.
 Gideon Aime LaCroix, *CE*, 128 *Colchester Ave.*, Bennington.
 Douglas Lyle Liston, *EE*, 7 *Hadley Rd.*, Burlington.
 Forrest Alan Nelson, *ME*, *M. Converse Hall*, Hamden, Conn.
 Norman John O'Grady, *EE*, *Essex Junction*, Essex Junction.
 John David Phillips, *ME*, *M. Converse Hall*, New York, N. Y.
 Charles Arthur Plumley, *ME*, 128 *Colchester Ave.*, Ludlow.
 Richard Warren Pope, *ME*, *Sigma Phi Place*, Wellesley Hills, Mass.
 George Besett Ruble, *ME*, 300 *Main St.*, Burlington.
 Carl Ruroede, III, *ME*, *N. Converse Hall*, Port Washington, N. Y.
 Dean Charles Severance, *ME*, *M. Converse Hall*, Chester.
 Robert William Soule, *ME*, 457 *S. Union St.*, Burlington.
 Herman Selig Thomas, *EE*, 55 *Henry St.*, Burlington.
 Samuel Underhill Vail, *CE*, 41 *University Ter.*, St. Albans.
 Vincent Paul Welch, *ME*, 70 *Park St.*, Burlington.
 James Donald Whalon, *ME*, 82 *Hungerford Ter.*, E. Dorset.

THE COLLEGE OF AGRICULTURE

SENIORS—*Class of 1942*

Verna Margaret Allen, *HE*, 63 *Harrington Ter.*, Burlington.
 Wilfrid Henry Bourdeau, *Ag*, 60 *Colchester Ave.*, Middlebury.
 Floyd Walter Campbell, *Ag*, *Agronomy Bldg.*, Strafford.
 Robert Lackie Carlson, *Ag*, *Delta Psi House*, S. Ryegate.
 Lucille Vian Clark, *HE*, *Delta Delta Delta House*, Rutland.
 Wanda Emma Cobb, *HE*, *Kappa Alpha Theta House*, Rutland.
 Douglas Putnam Dana, *Ag*, *East Ave.*, N. Pomfret.
 Colin Campbell Drown, *Ag*, 104 *S. Union St.*, Newport.
 Catherine Helena Farrell, *HE*, *Shelburne*, Shelburne.
 Barbara Marion Gallagher, *HE*, *Alpha Chi Omega House*, St. Albans.
 Charlotte Elisabeth Heath, *HE*, *Alpha Xi Delta House*, W. Haven, Conn.
 Ellen Agnes Isham, *HE*, *Alpha Chi Omega House*, S. Burlington.
 Joyce Kenyon, *HE*, *Richmond*, Richmond.
 Gail Ferguson Klinger, *HE*, *Delta Delta Delta House*, Cornwallville, N. Y.
 Katherine Terese Kyle, *HE*, *Grassmount*, Brandon.
 William Patrick Leamy, *Ag*, 104 *S. Union St.*, Fair Haven.
 Erva Ruth Livingston, *HE*, 51 *Monroe St.*, Burlington.
 Herbert John Long, *Ag*, *Sigma Nu Lodge*, Holley, N. Y.
 Anne Stockwell Lovell, *HE*, 14 *University Ter.*, Bellows Falls.
 Janet Taylor Malonson (Mrs.), *HE*, 169 *S. Union St.*, Burlington.
 Jean Storer Mann, *HE*, *Delta Delta Delta House*, Hempstead, N. Y.
 Copeland Harris Marks, *Ag*, 8 *Decatur St.*, Burlington.
 Gwendolyn Esther Marshia, *HE*, 29 *Mansfield Ave.*, Cambridge.
 Pearl Towne Marvin, *HE*, 29 *Mansfield Ave.*, Fairfax.
 Dorothy Grace Nichols, *HE*, *Winooski*, Winooski.
 Ruth Evelyn Orr, *HE*, 565 *Main St.*, Vershire.
 Hilda Leona Paquette, *HE*, *Dresser House*, Craftsbury.
 Lawrence John Partridge, *Ag*, 60 *Colchester Ave.*, Barre.
 Gratia Houghton Pearl, *HE*, 154 *Summit St.*, Burlington.
 Merton Sabin Pike, *Ag*, 54 *Brookes Ave.*, Stowe.
 John Holden Pratt, Jr., *Ag*, 104 *S. Union St.*, N. Clarendon.
 Alice Beatrice Reichman, *HE*, *Redstone*, New York, N. Y.
 Hester Doris Rice, *HE*, 59 *N. Willard St.*, Derby Line.
 Janet Elizabeth Rust, *HE*, 73 *Pine St.*, Burlington.
 Arnold Chauncey Smith, *Ag*, 93 *N. Prospect St.*, Barton.
 Norman Renwick Stoddard, *Ag*, *S. Converse Hall*, Groton.
 Glenn Clayton Streeter, *Ag*, *University Gymnasium*, E. Concord.
 Mary Elizabeth Tuckerman, *HE*, *Allen House*, New Haven, Conn.
 William Chester Walker, III, *Ag*, 64 *Hungerford Ter.*, Cabot.
 Charles Alymer Webster, *Ag*, 15 *Wilson St.*, Orleans.
 Frederick Henry Webster, *Ag*, *University Farm*, Orleans.
 Harriet Lee Woods, *HE*, *Alpha Chi Omega House*, Waterbury.
 Beatrice Cecilia Wright, *HE*, 59 *N. Willard St.*, Windsor.

JUNIORS—*Class of 1943*

Marjorie Esther Abell, *HE*, *Pi Beta Phi House*, Burlington.
 Helena Anderson, *HE*, *Sanders Hall*, W. Glover.

- Mildred Charlotte Anderson, *HE, Alpha Xi Delta House*, W. Rutland.
 Cynthia Glenna Bailey, *HE, Alpha Chi Omega House*, Essex Jct.
 Florence Miriam Bevins, *HE, 371 Flynn Ave.*, Burlington.
 Robert Lee Bickford, Jr., *Ag, 60 Colchester Ave.*, Newport.
 Barbara Merrill Burns, *HE, Redstone*, Montpelier.
 Hazel Edna Butterfield, *HE, Dresser House*, Middlebury.
 Beverly May Carr, *HE, 422 North St.*, Burlington.
 Merle Wesson Crown, *Ag, 26 Fletcher Pl.*, Groton.
 James Field Duckworth, *Ag, 280 College St.*, Springfield, Mass.
 Kathleen Eleanor Easton, *HE, 56 N. Willard St.*, Shoreham.
 Hilda Verne Ebare, *HE, Shelburne Rd.*, Fairfax.
 Rufus C. Estey, Jr., *Ag, Delta Psi House*, Springfield.
 Robert Emmett Fenix, *Ag, 15 Perrotta Pl.*, Burlington.
 Margaret Flint, *HE, 46 Harrington Ter.*, San Francisco, Calif.
 Franklin John Fowler, *Ag, Sigma Nu Lodge*, Manchester Depot.
 Robert Morris Grover, *Ag, M. Converse Hall*, York Village, Me.
 Shirley Anne Hall, *HE, Alpha Chi Omega House*, E. Randolph.
 Richard Henry Iby, *Ag, 35 Volz St.*, Burlington.
 Agatha Corrinne Keelan, *HE, Redstone*, Montgomery.
 Beth Inez Lund, *HE, Claggett House*, Hartford, Conn.
 Virginia Hutson Mitchell, *HE, Alpha Chi Omega House*, Worcester, Mass.
 June Shirley Naylor, *HE, Gates House*, Alburgh.
 Ruth Marie Newell, *HE, Delta Delta Delta House*, Stamford, Conn.
 Harry Chandler Parker, Jr., *Ag, Sigma Nu Lodge*, Johnson.
 Ray Irving Pestle, Jr., *Ag, 22 Wilson St.*, Waitsfield.
 Phyllis Mae Pierce, *HE, Alpha Chi Omega House*, Swanton.
 Winston Wilder Pierce, *Ag, 37 Russell St.*, Franklin.
 Lucie Grace Pike, *HE, Alpha Chi Omega House*, Irasburg.
 Patricia Faith Kenyon Prior (Mrs.), *HE, 171 Lyman Ave.*, Vergennes.
 Harold Mosher Pulling, *Ag, 12 Brookes Ave.*, Rutland.
 Irene Marian Quimby, *HE, 25 Orchard Ter.*, Barnet.
 Barbara Isabel Robinson, *HE, Winooski*, Winooski.
 Florence Adelaide Smith, *HE, 565 Main St.*, Treadwell, N. Y.
 Marjorie Louise Smith, *HE, 565 Main St.*, Plainfield.
 Claradella Snow, *HE, Allen House*, Barre.
 Lavinia Natalie Spear, *HE, Alpha Xi Delta House*, St. Albans.
 Jean Margaret Sprague, *HE, Sanders Hall*, Shrewsbury, Mass.
 Robert Prindle Story, *Ag, Sigma Nu Lodge*, Rutland.
 Marian Clarissa Stoughton, *HE, 167 Ferguson Ave.*, Keeseville, N. Y.
 Ruth Catherine Walker, *HE, 64 Hungerford Ter.*, Cabot.
 Doris Marjorie Welsh, *HE, Kappa Alpha Theta House*, Albany, N. Y.
 Reginald Stewart White, *Ag, East Ave.*, Ryegate.
 Margaret Eleanor Wishart, *HE, 15 Beach St.*, Burlington.

SOPHOMORES—Class of 1944

- Janet Blaine Anderson, *HE, 59 N. Willard St.*, E. Craftsbury.
 John Willard Baxendale, *Ag, 29 Mansfield Ave.*, Burlington.
 Wilson Hollister Beebe, *Ag, 93 N. Prospect St.*, E. Dorset.
 Estelle Muriel Berkson, *HE, Redstone*, Newton Ctr., Mass.
 Anita Lillian Berman, *HE, Redstone*, Brooklyn, N. Y.
 Dorothy Mason Bourne, *HE, Pi Beta Phi House*, Cleveland, Ohio.

- Dorothy Jane Bullard, *HE*, 165 *Loomis St.*, Central Valley, N. Y.
 Geraldine Frances Campbell, *HE*, *Sanders Hall*, Strafford.
 Russell Flanders Carpenter, *Ag*, 21 *Nash Pl.*, Burlington.
 Norma Irene Charest, *HE*, 98 *Loomis St.*, Barre.
 Dorothy Jean Collins, *HE*, *Sanders Hall*, Colchester.
 William Michael Corey, *Ag*, 93 *N. Prospect St.*, W. Rutland.
 Virginia Crocker, *HE*, *Sanders Hall*, N. Hyde Park.
 Jay Stanley Cronk, *Ag*, *Kappa Sigma House*, Granby, Mass.
 Eleanor Patricia Crowley, *HE*, *Pi Beta Phi House*, Hastings-on-Hudson, N. Y.
 Malcolm Niven Dana, *Ag*, *East Ave.*, N. Pomfret.
 Richard Everette Desso, *Ag*, *Essex Junction*, Essex Junction.
 Margaret Ann Durfee, *HE*, 347 *S. Union St.*, Burlington.
 Alice Safford Dyer, *HE*, *Roberts House*, Richford.
 Penelope Standish Easton, *HE*, *Allen House*, Craftsbury Common.
 Dwight Kimball Eddy, *Ag*, 93 *N. Prospect St.*, Hinesburg.
 Mary Elizabeth Elliott (Mrs.), *HE*, 196 *S. Union St.*, Laconia, N. H.
 Emma Marion Finn, *HE*, 252 *Colchester Ave.*, St. Albans.
 Robert Fitzsimmons, *Ag*, 93 *N. Prospect St.*, W. Rutland.
 Herbert Gilman Foster, Jr., *Ag*, 93 *N. Prospect St.*, Windsor.
 Eugene Moses Fuchs, *Ag*, *N. Converse Hall*, Bronx, N. Y.
 Alma Lucia Gaylord, *HE*, *Dresser House*, Northfield.
 Harriet Mary Gebbie, *HE*, *Sanders Hall*, Greensboro.
 Frederick Harold George, *Ag*, 52 *Colchester Ave.*, Wells River.
 Ruth Mary Gorham, *HE*, *Gates House*, Brandon.
 Frances Aline Gravel, *HE*, *Winooski*, Winooski.
 Myra Davis Gray, *HE*, *Grassmount*, Waban, Mass.
 Ramona Dorothy Hathorn, *HE*, *Sanders Hall*, White River Jct.
 Arlington Oscar Hazen, *Ag*, 91 *S. Willard St.*, N. Hero.
 Erika Natalie Heininger, *HE*, 189 *North Ave.*, Burlington.
 Verle Randall Houghaboom, *Ag*, *Williston*, Williston.
 Rosamond Ella Hughes, *HE*, 3 *University Ter.*, Brattleboro.
 James Philo Irish, *Ag*, *Essex Junction*, Essex Junction.
 Judith Priscilla Isaacs, *HE*, *Roberts House*, Far Rockaway, N. Y.
 Jacob Katz, *Ag*, *Pi Sigma Delta House*, New York, N. Y.
 Nathan Zenas Knight, *Ag*, 2 *Bilodeau Ct.*, Post Mills.
 Ione Ethel Lacy, *HE*, 63 *Harrington Ter.*, Burlington.
 Frances Marie Lanou, *HE*, 48 *Brookes Ave.*, Burlington.
 Clara Marie Liese, *HE*, 19 *Fletcher Pl.*, Chelsea.
 Hilda Arlene Lund, *HE*, *Gates House*, Hartford, Conn.
 Richard Carlton Lunna, *Ag*, 60 *Colchester Ave.*, Newport Center.
 Jane Louise McAuliffe, *HE*, 355 *Pearl St.*, Burlington.
 Jean Alma Mayo, *HE*, 475 *Main St.*, *Essex Junction*, Essex Junction.
 Frances Helen Mayville, *HE*, 56 *N. Willard St.*, Milton.
 Frederick Wells Miller, *Ag*, *Kappa Sigma House*, Longmeadow, Mass.
 Lillian Edith Orne, *HE*, 15 *DeForest Rd.*, Irasburg.
 Robert Samuel Otis, *Ag*, 376 *S. Winooski Ave.*, Burlington.
 William Arthur Paterson, *Ag*, *Delta Psi House*, Barre.
 Mary Helen Quinn, *HE*, 15 *Colonial Sq.*, Burlington.
 Cecile Shirley Rosen, *HE*, *Robinson Hall*, Hartford, Conn.
 Alice Louise Ryan, *HE*, *Slade Hall*, Vergennes.
 Robert Orville Sinclair, *Ag*, 93 *N. Prospect St.*, Johnson.
 Ralph Pollister Soule, Jr., *Ag*, *Kappa Sigma House*, S. Portland, Me.

Florence Bertha Starkey, *HE*, 433 *Main St.*, Arlington, Mass.
 Richard William Thomas, *Ag*, *Kappa Sigma House*, Rutland.
 Noah Cyrus Thompson, *Ag*, 60 *Colchester Ave.*, Colchester.
 Richard Winter Thompson, *Ag*, *Kappa Sigma House*, Brooklyn, N. Y.
 Raymond Herman Tremblay, *Ag*, 11 *Hickok Pl.*, Highgate Center.
 Carl Alexander Urie, *Ag*, 60 *Colchester Ave.*, Craftsbury Common.
 Eunice Adelaide Watts, *HE*, 29 *Mansfield Ave.*, Jamaica.
 Barbara Mae Webb, *HE*, 433 *Main St.*, St. Albans.
 Merrill Ray Whitcomb, *Ag*, *Delta Psi House*, Springfield.
 Sarah Alida White, *HE*, 3 *University Ter.*, E. Ryegate.
 Harriet Louise Whitney, *HE*, 565 *Main St.*, Springfield.
 Nancy Whittemore, *HE*, *Alpha Xi Delta House*, Worcester, Mass.
 John Sibbald Williams, *Ag*, 34 *Elmwood Ave.*, Burlington.
 Seaver David Wright, Jr., *Ag*, 93 *N. Prospect St.*, White River Jct.

FRESHMAN—Class of 1945

Virginia Mae Allen, *HE*, *Essex Junction*, Essex Junction.
 Everett Bertrand Andrews, *Ag*, *Richmond*, Richmond.
 Victor Vernon Atherton, *Ag*, 60 *Colchester Ave.*, Barton.
 Robert Floyd Barrows, *Ag*, 143 *N. Union St.*, Milton.
 Richard Bothfeld, *Ag*, 60 *Colchester Ave.*, Cabot.
 Lois Sylvia Brown, *HE*, *Richmond*, Richmond.
 Velma Jeanne Bull, *HE*, *Redstone Dormitory*, Westfield, N. J.
 Leopold Michael Burak, *Ag*, *Winooski*, Winooski.
 Ruth Hubbell Cheney, *HE*, 121 *S. Willard St.*, New Haven.
 Roland Wilson Christiansen, *Ag*, 60 *Colchester Ave.*, E. Montpelier.
 Priscilla Clark, *HE*, 275 *Maple St.*, Burlington.
 Adele Pierce Conlan, *HE*, *Warner House*, Sea Cliff, N. Y.
 Francelia Mae Connor, *HE*, *Claggett House*, Middlesex.
 Alan Russell Corwin, *Ag*, 60 *Colchester Ave.*, Chelsea.
 Wendell George Earle, *Ag*, *East Ave.*, E. Hardwick.
 Alta Muriel Farnham, *HE*, *Sanders Hall*, N. Troy.
 Barbara Muriel Fiske, *HE*, *Williston Rd.*, Burlington.
 Pauline Hazelton Fitch, *HE*, *Redstone*, St. Johnsbury.
 Carol Lee Grant, *HE*, *Robinson Hall*, Winchester, Mass.
 Marjorie Anne Hall, *HE*, *Prospect House*, Wakefield, Mass.
 Phyllis Marie Hardy, *HE*, *Allen House*, Brattleboro.
 Sylvester Thomas Harvey, *Ag*, 27 *Latham Ct.*, Cabot.
 Ruth Anne Holmes, *HE*, 87 *S. Willard St.*, Burlington.
 Christine Ruth Hughes, *HE*, *Sanders Hall*, Brattleboro.
 Thelma Adria Jacobs, *HE*, 83 *N. Willard St.*, St. Albans.
 Eleanor Dawley Jenkins, *HE*, *Redstone*, Maplewood, N. J.
 Barbara Louise Kennon, *HE*, *Redstone Dormitory*, Fort Sam Houston, Texas.
 Barbara Ann King, *HE*, *Prospect House*, Alburgh.
 Barbara Elisabeth Kirby, *HE*, *Warner House*, Brooklyn, N. Y.
 Frederick Henry LaTaille, *Ag*, 128 *Colchester Ave.*, Salisbury.
 Winona Dorothy Little, *HE*, 64 *Henry St.*, Plainfield.
 Lorraine Winifred Luce, *HE*, 186 *S. Willard St.*, Waterbury.
 Muriel Gloria McKee, *HE*, *Claggett House*, St. Johnsbury.
 Robert Edward Marzari, *Ag*, *M. Converse Hall*, Yonkers, N. Y.
 Mildred Anne Irene Maw, *HE*, 145 *Robinson Pkwy.*, Island Pond.

Marian Lucy Melby, *HE, Allen House*, Andover, N. J.
 Charles Alexander Morrison, *Ag, 43 Greene St.*, W. Barnet.
 Helen May Murray, *HE, Claggett House*, Richmond.
 Shirley Ellen Needham, *HE, Sanders Hall*, Boston, Mass.
 Bethia Brown Noble, *HE, Claggett House*, Benson.
 Dorothy Elizabeth Noble, *HE, 119 N. Winooski Ave.*, Poultney.
 Marjorie Jane Nutting, *HE, 83 N. Willard St.*, Woodstock.
 James Raymond O'Connor, Jr., *Ag, M. Converse Hall*, New York, N. Y.
 Peter Robinson Palmer, *Ag, N. Converse Hall*, New Haven, Conn.
 Sydel Rosalyn Pearl, *HE, Roberts House*, Swanton.
 Eva Lois Pestle, *HE, 16 Greene St.*, Waitsfield.
 Robert James Pratt, *Ag, 12 Brookes Ave.*, N. Clarendon.
 Rayelen Bruce Prouty, *HE, Redstone Dormitory*, W. Hartford, Conn.
 Frances Elaine Saladino, *HE, Sanders Hall*, Ely.
 Jean Elizabeth Smith, *HE, Allen House*, Forest Hills, N. Y.
 Edgar Prescott Story, *Ag, 60 Colchester Ave.*, Rutland.
 Edward Joseph Tadejewski, *Ag, Kappa Sigma House*, Trenton, N. J.
 Betty Irene Walker, *HE, 64 Hungerford Ter.*, Cabot.
 Dorothy Isabelle Wallach, *HE, Prospect House*, New York, N. Y.
 Earlene Barbara Webber, *HE, 50 Greene St.*, E. Barre.
 Fred Clarence Webster, *Ag, 15 Wilson St.*, Randolph.
 Shirley Emily Wedge, *HE, 433 Main St.*, Lakeside, Conn.
 Clara Elizabeth White, *HE, Claggett House*, Greensboro.

*THE DEPARTMENT OF EDUCATION

SENIORS—Class of 1942

Shirley Isabel Barney, *25 Orchard Ter.*, Swanton.
 Mildred Edna Belville, *164 N. Union St.*, Barre.
 Mary Spear Bissell, *Alpha Xi Delta House*, Saxtons River.
 Orrin Marnald Brawn, *MusEd, 67 Brookes Ave.*, Portland, Me.
 Barbara Ruth Brewster, *14 University Ter.*, Cambridge.
 Ruth Hilda Cooley, *MusEd, 14 University Ter.*, Randolph Center.
 Marie Alexandrina Georgette Coutu, *29 Mansfield Ave.*, Westfield.
 Dorothy Ruth Dickinson, *Roberts House*, Bellows Falls.
 Doris Elaine Goodell, *59 N. Willard St.*, Pompanoosuc.
 Eugene Raymond Greemore, *92 East Allen St.*, Winooski.
 Ida Rachel Hall, *56 N. Willard St.*, Saxtons River.
 Jean French Hall, *MusEd, Allen House*, Charlotte.
 Nora Eunice Hill, *MusEd, 14 University Ter.*, Lyndon Center.
 Alice Hastings Howe (Mrs), *153 Summit St.*, Passumpsic.
 Charlotte Louise Hyde, *32 University Ter.*, E. Bethel.
 Katherine Weinmann Lyon, *60 Colchester Ave.*, Morrisville.
 Dorothy Frances McCormick, *Alpha Xi Delta House*, Burlington.
 Jean Louise McMahon, *14 University Ter.*, Barre.
 Ruth Madeline Mongeon, *Winooski*, Winooski.
 Dorothy Moseley, *MusEd, 62 Harrington Ter.*, Northfield.

* The curriculum is Elementary Education unless otherwise noted.

Dorothy Hannah Murphy, 455 *North St.*, Burlington.
 James David Neill, 60 *Colchester Ave.*, Randolph.
 Olive Ella Ransom, 26 *University Ter.*, Jericho.
 Myrtle Edith Raymond, *Delta Delta Delta House*, Bridgewater.
 June Everen Riddell, *Delta Delta Delta House*, Graniteville.
 Dorothy Norma Rockwell, *MusEd*, 565 *Main St.*, Alburgh
 Louise Mary Rugg, *Pi Beta Phi House*, Essex Junction.
 Margaret Joy Sandall, 256 *S. Winooski Ave.*, Burlington.
 Virginia Sargent, *Roberts House*, Montpelier.
 Charlotte Louise Scott, 198 *East Ave.*, Burlington.
 Ethel Bartlett Shippee, *Alpha Chi Omega House*, W. Dover.
 Guy Thomas Trono, 430 *Colchester Ave.*, Burlington.
 William Edward Wilson, 20 *N. Union St.*, Lyndonville.
 Hazen Francis Wood, *Delta Psi House*, Randolph.

JUNIORS—Class of 1943

Alfred Franklin Amec, 12 *Brookes Ave.*, Randolph.
 Kathleen Benson, 29 *Wilson St.*, Springfield, Mass.
 Ethel Lucille Brooks, 29 *Mansfield Ave.*, Middlebury.
 Alice Estelle Brown, 56 *Hoover St.*, Marshfield.
 Marjorie Elaine Carbino, 25 *Orchard Ter.*, W. Bridgewater.
 Dorothy Ethel Cargill, 75 *Brookes Ave.*, Island Pond.
 Suzanne Jane Carter, 14 *University Ter.*, Barre.
 Margaret Lorretta Cassidy, 76 *Park St.*, Burlington.
 Celia Marion Cioffi, 165 *Loomis St.*, St. Albans.
 Theresa Cecile Coderre, *MusEd*, Allen House, Swanton.
 Sophia Marjory Counos, 32 *University Ter.*, St. Albans.
 Jeanne Cecile Coutu, 146 *East Ave.*, Westfield.
 Barbara Mae Dunbar, *Alpha Xi Delta House*, St. Albans.
 Priscilla Elfie Fisher, 227 *N. Prospect St.*, Bartonsville.
 Dorothy Viola Franklin, 29 *Wilson St.*, E. Ryegate.
 Beryle Emily Gardner, 565 *Main St.*, Cabot.
 Mary Louise Hart, *Gates House*, E. Patchogue, N. Y.
 Mary Jane Higgins, 35 *Converse Ct.*, Burlington.
 Beatrice Main Hutcheson (Mrs.), 72 *N. Willard St.*, E. Corinth.
 Earlene Marian Jenness, 26 *University Ter.*, Barton.
 Morna Elizabeth Lang, Grassmount, Stowe.
 Eleanor Marie Langeway, 56 *N. Willard St.*, Vergennes.
 Mary Valeska Lessor, *MusEd*, 85 *Hungerford Ter.*, Burlington.
 Jean Alice Murphy, 455 *North St.*, Burlington.
 Hazel Elizabeth Osgood, *Dresser Cottage*, Concord.
 Elizabeth Mary Pratt, *Grassmount*, N. Clarendon.
 Betty Marie Preston, 32 *University Ter.*, Salisbury.
 Louise Farnum Rice, 280 *Colchester Ave.*, Arlington.
 Mary Farrington Rising (Mrs.), 69 *Greene St.*, White River Jct.
 Thelma Geraldine Schoeneman, 326 *College St.*, Burlington.
 Marjorie Evelyn Southworth, *MusEd*, 32 *University Ter.*, Bethel.
 Doris Gordon Squire, *MusEd*, 26 *University Ter.*, Waterbury.
 Palla Lois Stickney, 26 *University Ter.*, E. Thetford.
 Julia Blanche Strong, 25 *Orchard Ter.*, Johnson.

Lucy Miller Upson, *Gates House*, Dundee, N. Y.
Rose Margaret Woodard, 155 *Loomis St.*, Bennington.

SOPHOMORES—*Class of 1944*

Evelyn Dorothy Adams, 26 *University Ter.*, Stowe.
Priscilla Ann Bennett, 19 *Fletcher Pl.*, Bennington.
Janice Somers Berry, *Sanders Hall*, Brattleboro.
Barbara Bradford Blake, *Alpha Xi Delta House*, Winchester, Mass.
Constance Anne Bray, *Slade Hall*, Springfield, Mass.
Carol Persis Burns, *Allen House*, Randolph.
Keith Warren Calkins, *MusEd*, 22 *Wilson St.*, Barton.
Dorothy Effie Carter, *MusEd*, *Claggett House*, St. Johnsbury.
Ita Margaret Casey, 84 *N. Willard St.*, Burlington.
Thomas Paul Clairmont, 17 *Barrett St.*, Burlington.
Barbara Mary Clark, *Alpha Chi Omega House*, St. Albans.
Helen Elizabeth Clifford, 19 *Fletcher Pl.*, S. Royalton.
Priscilla Ann Davis, 72 *Colchester Ave.*, Brookfield.
Julia Bancroft Fletcher, *Sanders Hall*, Woodstock.
Edna Louise Gates, *Claggett House*, S. Royalton.
Robert Patterson Goss, *MusEd*, 241 *Loomis St.*, Wilder.
Barbara Mae Hall, *Claggett House*, E. Randolph.
Gertrude Marie Hallock, 144 *Ledge Rd.*, Burlington.
Charlotte Hammond, *Allen House*, Windsor.
Eleanor Lois Harrington, 29 *Mansfield Ave.*, Bennington.
Nellie Alberta Herrmann, *MusEd*, *Warner House*, Rutland.
Mary Frances Hoag, 174 *Lyman Ave.*, Burlington.
Sara Berenson Jacobson (Mrs.), 52 *Hickok Pl.*, Brookline, Mass.
Louise Marie Johnson, 125 *Mansfield Ave.*, Burlington.
Barbara Lillian Lane, 6 *Hickok Pl.*, Burlington.
William Taylor Lane, *MusEd*, 43 *Fletcher Pl.*, Hardwick.
Marie Esther Langeway, 64 *Henry St.*, Vergennes.
Anthony Joseph Lewkowicz, *Kappa Sigma House*, Bellows Falls.
Annette Adelia Lilley, 25 *Orchard Ter.*, E. Fairfield.
Kathleen Laura Little, 19 *Fletcher Pl.*, Chelsea.
Ellen Ann O'Brien, *MusEd*, 16 *Greene St.*, Waterbury.
Carolyn Ayers Phelps, *MusEd*, 16 *Greene St.*, Milton.
Evelyn Bertha Phillips, *Fort Ethan Allen*, Williamstown.
Velma Mae Phillips, 148 *King St.*, Burlington.
Beverly Mae Pierce, 154 *East Ave.*, Barre.
Helen Doris Potter, 25 *Orchard Ter.*, Middlebury.
Carolyn Emma Provost, 333 *S. Prospect St.*, Burlington.
Lois Naomi Reed, *Allen House*, Fair Haven.
Ann Remington, *Grassmount*, Bennington.
Rita Marie Shea, 20 *Henderson Ter.*, Nashua, N. H.
Ellen Reid Stewart, 159 *Loomis St.*, New York, N. Y.
Ernest Raymond Stockwell, *MusEd*, 73 *Fletcher Pl.*, Hartford.
Phyllis Marguerite Taylor, *MusEd*, *Redstone*, Bellows Falls.
Myrtle Ivis Tilton, *Dresser House*, Randolph.
Florence Jean Vogler, *MusEd*, 272 *Pearl St.*, Burlington.
Cornelia Justine Whalen, 114 *N. Prospect St.*, Burlington.
Laura Lucille White, 159 *Loomis St.*, Ryegate.

Corinne Blanche Willard, *Richmond*, Richmond.
 Marian Ruth Wool, 20 *Latham Ct.*, Burlington.
 Winifred Mary Wrisley, *MusEd, Allen House*, Waterbury.

FRESHMAN—Class of 1945

Betty Cornelia Anderson, *Gates House*, Cromwell, Conn.
 Joyce Edna Bailey, 145 *Robinson Pkwy.*, McIndoe Falls.
 Catherine Patricia Barber, *Allen House*, Rutland.
 Margaret Isabelle Batchelder, *Gates House*, Montpelier.
 Norman Hubert Beaulieu, 72 *East Ave.*, Barre.
 Eileen Jeanette Beriau, *Sanders Hall*, Rutland.
 Jean Boyer-Hamilton, *Delta Psi House*, Barre.
 Esta Broutsas, 145 *Robinson Pkwy.*, Brattleboro.
 Yvonne Ann Buley, *Richmond*, Richmond.
 Joyce Elizabeth Byington, *Claggett House*, Charlotte.
 Shirley Elaine Chapin, 48 *Colchester Ave.*, Colchester.
 Beryl Irene Cheney, *Allen House*, Randolph.
 Jane Adelia Colfax, *MusEd, Gates House*, Paterson, N. J.
 Sally Anne Doremus, *MusEd*, 83 *N. Willard St.*, Rochester.
 Alice Gloria Edwards, *Warner House*, Brooklyn, N. Y.
 James John Fabiano, 414 *Colchester Ave.*, Somersworth, N. H.
 Phyllis-Anne Falby, *Claggett House*, Windsor.
 Mary Lyons Fifield, 11 *N. Union St.*, Burlington.
 Loraine Somerville Guild, 4 *Perrotta Pl.*, Burlington.
 Marie Alice Hammond, 67 *Caroline St.*, Burlington.
 Mary Elizabeth Harmon, *Allen House*, Bennington.
 Bettie Lorraine Haynes, 109 *Buell St.*, Burlington.
 Katherine Ann Hennessey, *Prospect House*, Bellows Falls.
 Thomas Ronald Ingram, *Delta Psi House*, Barre.
 Helen Blakey Kirby, *Underhill*, Underhill.
 Phyllis Elizabeth Knight, 56 *N. Willard St.*, Bellows Falls.
 Mary Ann Kudiesy, 18 *George St.*, Burlington.
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 Ralph Robert LaPointe, *Winooski*, Winooski.
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 Roxie J. Talbert, Newport.
 Robert M. Talcott, Woodstock.
 Barbara M. Tams, Summit, N. J.
 Eileen S. Tansey, Easthampton, Mass.
 Robert P. Tarshis, Westmount, Que.
 Herbert W. Taylor, Fairfax.
 Winifred L. Taylor, B.E., Wallingford.
 Stanley B. Tenney, B.S., Hinesburg.
 Lillian E. Terrill, Burlington.
 Mrs. Ethel M. Thayer, Newfane.
 Rosemary Thayer, Burlington.
 Jean Thoburn, B.A., Pittsburgh, Pa.
 Annah S. Thomas, A.B., Bristol.
 Gordon M. Thomas, B.A., M.E., Johnson.
 Truman H. Thomas, Lake Clear, N. Y.
 Eunice L. Thompson, A.B., Dover, N. H.
 Le Grand B. Thompson, Bennington.
 Oletha N. Thompson, B.E., Bristol.
 Holland D. Thompson, Philadelphia, Pa.
 Belva A. Thrall, Lewis, N. Y.
 Evangeline Thurston, A.B., M.A., Wash-
 ington, D. C.
 Mrs. Sadie S. Tietz, Richmond.
 Mrs. Nora R. Tillotson, Groton.
 Charlotte L. Timmerman, Forest Hills,
 N. Y.
 Marion L. Towle, B.E., St. Johnsburry.
 Helen P. Towne, B.S., Milton.
 Ada Trentini, Barre.
 Susanne Tribble, Ann Arbor, Mich.
 Walter F. True, A.B., Randolph.
 Sister Agnes M. Tully, A.B., Rutland.
 Mary V. Tuohy, Ph.B., W. Rutland.
 Katherine L. Tupper, Burlington.
 Mary Kay Tupper, Ph.B., Burlington.
 Katherine H. Turner, Burlington.
 Llewellyn L. Turner, B.S., Richford.
 Harry G. Twitchell, Burlington.
 Elwin H. Twombly, A.B., Concord.
 Wayne G. Twombly, B.S., Brandon.
 George R. Tyler, A.B., Enosburg Falls.
 Janet A. Urice, B.A., Silver Bay, N. Y.
 Esther J. Urie, Ph.B., Craftsbury Common.
 Frank H. Utley, W. Hartford, Conn.
 Lawrence N. Van Doren, S. Orange, N. J.
 Mrs. Helen H. Van Guider, East Poultney.
 Laura E. Van Kenren, Hyde Park, N. Y.
 Irene Vanlandingham, Kansas City, Mo.
 Mrs. Mae F. Van Vactor, Mongaup Valley,
 N. Y.
 Elaine H. Varian, Ft. Ethan Allen.
 Osgood L. Villaume, B.S., Brattleboro.
 Martha Vining, A.B., S. Weymouth, Mass.
 Mrs. Ruth W. Wade, Cheshire, Mass.
 Leon E. Wagner, B.S., Hardwick.
 Marjorie E. Walbridge, Randolph.
 Mrs. Ethel K. Wales, Barre.
 Jean M. Walker, New York, N. Y.
 Ida F. Wallace, Nashua, N. H.
 Katherine M. Walsh, Rutland.
 Mrs. Eva L. Warner, N. Troy.
 Mrs. Alice E. Warren, Castleton.
 Richard M. Waters, Brookline, Mass.
 Cola D. Watson, B.S., Highgate Center.
 Florence A. Watson, Plainfield.
 Helen G. Watson, Yonkers, N. Y.
 Mabel V. Watson, Groton.
 Helen M. Way, Ph.B., Burlington.
 Grace A. Webb, Dr., Burlington.
 Frank E. Wedge, Lakeside, Conn.
 Theresa O. Weiss, B.S., M.E., N. Bergen,
 N. J.
 Gordon G. Welch, B.S., Peacham.
 Mary L. Weller, McClellandtown, Pa.
 Katherine E. Wells, Whiting.
 Merlin J. Wells, B.S., Jeffersonville.
 Edward H. Werner, Warsaw, Poland.
 Russell C. West, Bridgewater.
 Edward F. Wheeler, B.S., Bristol, Conn.
 Esther D. Wheeler, Ph.B., Waterbury.
 Helen M. Wheeler, Springfield, Mass.
 Herbert V. Wheelock, B.S., Barre.
 Joan Whelan, Berea, Ohio.
 Beatrice M. Whitcomb, Bristol.
 Cordelia J. Whitcomb, Fair Haven.
 Dorothy M. White, Greensboro.
 Mrs. Ellen D. White, A.B., Morrisville, Pa.
 Jane B. White, Englewood, N. J.
 Thomas H. White, B.A., Morrisville, Pa.
 Laura A. Whitehill, Orleans.
 Roland W. Whiting, B.S., Johnson.
 Julius W. Whitney, Salisbury.
 Metta N. Whittaker, Philadelphia, Pa.
 Frances M. Whittington, Nutley, N. J.
 William W. Wicker, Burlington.
 Mrs. Beatrice W. Wilber, B.A., Johnson.
 Mrs. Rose S. Wilbur, Glover.
 May L. Willard, Derby.
 Allan R. Williams, B.S., Jericho.

John W. Williams, Northampton, Mass.	Elizabeth C. Wood, Hoosick Falls, N. Y.
Mrs. Kathleen M. Williams, Charlotte.	Mrs. Fannie P. Wood, Burlington.
Ruth H. Williams, A.B., Jericho.	Phoebe D. Woodman, Nashua, N. H.
Clair B. Wilson, B.S., M.A., California, Pa.	Marjorie L. Worcester, S. Barre.
Mrs. Pearl E. Wilson, Lyndonville.	Georgia W. Worster, Bangor, Me.
William E. Wilson, Lyndonville	Kathryn C. Worthley, Washington.
Effie Winn, Burlington	Rachel C. Wursthorne, A.B., Troy.
Ruth P. Winton, B.S.E., Flushing, N. Y.	Mrs. Lucy H. Wyman, Starksboro.
Mrs. Elizabeth C. Withers, Barton.	Sigismund S. Wysolmerski, W. Rutland.
Helen F. Withers, Dobbs Ferry, N. Y.	Donald R. Yandow, Burlington.
Samuel C. Withers, Jr., A.B., Barton.	James H. Young, Scarsdale, N. Y.
Inez M. Wolfe, Kansas City, Mo.	Mable J. Young, Craftsbury Common.
Priscilla Wolf, Brooklyn, N. Y.	Mrs. Naomi W. Zieber, B.A., M.A., Philadelphia, Pa.
Ruth E. Wolverton, Bloomsbury, N. J.	

STUDENTS IN RESIDENCE, 1941-1942

THE DEPARTMENT OF EDUCATION

BY CURRICULA:	MEN	WOMEN	TOTAL
Elementary Education	17	130	147
Music Education	4	23	27
Totals	21	153	174
BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1942	5	30	35
Juniors, 1943	1	35	36
Sophomores, 1944	6	44	50
Freshmen, 1945	9	40	49
Unclassified	0	4	4
Totals	21	153	174

THE COLLEGE OF AGRICULTURE

BY CURRICULA:	MEN	WOMEN	TOTAL
Agriculture	80	0	80
Home Economics	0	138	138
Totals	80	138	218
BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1942	17	26	43
Juniors, 1943	14	31	45
Sophomores, 1944	31	41	72
Freshmen, 1945	18	40	58
Unclassified	0	0	0
Totals	80	138	218

THE COLLEGE OF ENGINEERING

BY CURRICULA:	MEN	WOMEN	TOTAL
Civil Engineering	24	1	25
Electrical Engineering	31	0	31
Mechanical Engineering	65	2	67
Totals	120	3	123
BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1942	18	1	19
Juniors, 1943	33	0	33
Sophomores, 1944	34	2	36
Freshmen, 1945	35	0	35
Unclassified	0	0	0
Totals	120	3	123

THE COLLEGE OF ARTS AND SCIENCES

BY CURRICULA:	MEN	WOMEN	TOTAL
Chemistry	17	1	18
Classical	6	29	35
Commerce and Economics, Business	70	7	77
Commerce and Economics, Commercial Teaching	2	13	15
Commerce and Economics, Secretarial	0	44	44
General Science	55	28	83
Pre-Medical	102	18	120
Literary-Scientific	7	51	58
Secondary Education	31	23	54
Social Science	60	76	136
Special	14	12	26
Totals	364	302	666
BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1942	66	58	124
Juniors, 1943	91	65	156
Sophomores, 1944	88	80	168
Freshmen, 1945	106	90	196
Unclassified	13	9	22
Totals	364	302	666

THE COLLEGE OF MEDICINE

BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1942	31	0	31
Juniors, 1943	32	0	32
Sophomores, 1944	28	3	31
Freshmen, 1945	31	2	33
Totals	122	5	127

THE GRADUATE DEPARTMENT

	MEN	WOMEN	TOTAL
Resident Graduate Students	12	7	19

THE UNDERGRADUATE COLLEGES

SUMMARY BY CLASSES:

	MEN	WOMEN	TOTAL
Seniors, 1942	106	115	221
Juniors, 1943	139	131	270
Sophomores, 1944	159	167	326
Freshmen, 1945	168	170	338
Unclassified	13	13	26
Totals	585	596	1,181

SUMMARY OF RESIDENT ENROLLMENT, 1941-1942

THE UNDERGRADUATE COLLEGES

	MEN	WOMEN	TOTAL
The Department of Education	21	153	174
The College of Agriculture	80	138	218
The College of Engineering	120	3	123
The College of Arts and Sciences	364	302	666
Total in Undergraduate Curricula	585	596	1,181

THE GRADUATE DEPARTMENT

.....	12	7	19
Total in the Academic Colleges	597	603	1,200

THE COLLEGE OF MEDICINE

.....	122	5	127
Total in the University	719	608	1,327

THE SUMMER SESSION, 1941

.....	285	712	997
Total registrations	1,004	1,320	2,324
Less students counted twice	(39)	(37)	(76)
Total different students enrolled	965	1,283	2,248

GEOGRAPHICAL DISTRIBUTION

	MEN	WOMEN	TOTAL
California	1	1	2
Connecticut	49	32	81
District of Columbia	0	1	1
Georgia	1	0	1
Illinois	0	2	2
Iowa	1	0	1
Louisiana	0	1	1
Maine	6	3	9
Maryland	1	0	1
Massachusetts	83	48	132

	MEN	WOMEN	TOTAL
Michigan	1	0	1
Minnesota	1	0	1
Missouri	1	0	1
Montana	1	0	1
New Hampshire	12	6	18
New Jersey	18	23	41
New York	69	81	150
North Dakota	1	0	1
Ohio	2	1	3
Pennsylvania	1	4	5
Rhode Island	1	4	5
South Dakota	1	0	1
Texas	0	1	1
VERMONT	463	396	859
Virginia	0	3	3
Canada	4	1	5
Canal Zone	1	0	1
Totals	719	608	1,327

Degrees in Course, 1941

THE CURRICULUM IN ELEMENTARY EDUCATION

* BACHELORS OF EDUCATION

Muriel Frances Barber, Wilmington.	Thelma King, Island Pond.
Wayne Russell Barrows (<i>MusEd</i>), Burlington.	Cleo Lovina Lovett, Bennington.
Sylvia Kabler Bergman, Burlington.	Thomas Keeshon Malone, Jr. (<i>MusEd</i>), Burlington.
Hiram Orlando Bevins (<i>MusEd</i>), Milton.	Madeline Elsie Martin, Milton.
Barbara Katharine Blodgett, Montgomery Center.	Juliette Haven Miller, <i>cum laude</i> , Dummerston.
Sarah Ann Brigham (<i>MusEd</i>), Burlington.	Eleanor Jane Munger, Orwell.
Helen Frances Carr, Burlington.	Evelyn Ann Pitman Perkins, St. Albans.
Lorraine Carver, Burlington.	Louis Pichierri (<i>MusEd</i>), Burlington.
Alice Elizabeth Cole (<i>MusEd</i>), Barre.	Paul Raymond Poulin (<i>MusEd</i>), Burlington.
Eileen Kathryn Connelly, Burlington.	Alice Louise Powers, Middletown Springs.
Ruth Marion Conner, Barton.	Elaine Julia Pratt, Vergennes.
Idora Gertrude Cooley, Randolph Center.	Frances Allen Rogers, Townshend.
Josephine Dorothy Crepkowski, Springfield.	Kathryn Marie Silliman, Burlington.
Wilfred Theodore Reed Elliott, <i>cum laude</i> , St. Johnsbury.	Janice Maurine Spear (<i>MusEd</i>), St. Albans.
Margaret Esherick, Philadelphia, Pa.	Oletha Nelia Thompson, Bristol.
Nita Thelma Falby, Windsor.	Effie Evelyn Winn, B.S. (<i>MusEd</i>), Burlington.
Ora Gladys Heywood, East Ryegate.	
Mary Elizabeth Hosley, Manchester.	

* Diploma in four-year curriculum awarded by University of Vermont and State Agricultural College.

THE COLLEGE OF AGRICULTURE

BACHELORS OF SCIENCE IN AGRICULTURE

- George Howard Bailey, *cum laude*, Rochester.
 *LeRoy Melvin Bingham, Burlington.
 Elmer Luther Chatfield, Brandon.
 Robert Davis Copp, South Burlington.
 Harold Robert Cushman, Vergennes.
 Robert Percy Davis, Morrisville.
 Edward Oscar Eaton, Waitsfield.
 Kenneth Jay Estey, *cum laude*, Hinesburg.
 Ralph Frederick Evans, Groton.
 Walter Atwood Gage, Burlington.
- Edson Emery Gifford, Jr., East Bethel.
 Howard Oliver Gilmore, Tinnmouth.
 Frank Howard Livak, Rutland.
 Curtis Arthur Moore, Londonderry.
 James Harold Nelson, East Ryegate.
 Elmer Lincoln Nichols, Westminster.
 Francis Walter Nye, Barton.
 Ernest Frederick Paquette, Craftsbury.
 Ransom Orcutt Slack, Vergennes.
 George Merrill Ward, New Haven.
 Harry Ernest Wheeler, West Charleston.

BACHELORS OF SCIENCE IN HOME ECONOMICS

- Eloise Parker Bayley, Burlington.
 Hester Nettie Carver, Weston.
 Mildred Virginia Creamer, Ridley Park, Pa.
 Mrs. M. Eleanor Shandoff Dempsey, Pittsfield, Mass.
 Laura Ann Douglas, Shoreham.
 Madge Eleanor Duba, Burlington.
 Dorothy Francis Emerson, Northfield.
 Mary Arlene Fitzsimonds, Jericho.
 Evelyn Merrill Fuller, *magna cum laude*, Chester.
 Madeline Ruth Greaves, Morrisville.
 Elizabeth Louise Gurney, Burlington.
 Laura Ruth Hawley, New Rochelle, N. Y.
 Nancy Rodgers Jones, Belmont, Mass.
- Barbara Read McIntosh, South Royalton.
 Barbara J. Mann, North Easton, Mass.
 Shirley Watts Mayforth, Barre.
 Dawn Emily Nichols, Malletts Bay.
 Gertrude Louise Peters, Bradford.
 Irene Valentina Prondecki, Turner Falls, Mass.
 Marian Lucy Rice, Shelburne.
 Marion Aletta Root, Burlington.
 Rac Gwendolyn Sheehan, Newport.
 Mrs. Kathleen LeBaron Strassburg, *cum laude*, Waterbury.
 Virginia Evelyn Weyell, Winsted, Conn.
 Jeannette Lucille Whipple, Montpelier.

THE COLLEGE OF ENGINEERING

BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

- Everett Clark Bailey, Burlington.
 John Ralph Burnett, Burlington.
 Harold Gunnar Carlson, *cum laude*, Brattleboro.
 Harry Bunal Coburn, East Montpelier.
 Carlo Peter Domenichini, Readsboro.
- George Bernard Dunn, *cum laude*, Craftsbury Common.
 Maynard John Lawrence, Akron, N. Y.
 Donald Argyle Morrison, South Burlington.
 Frank Richard Proctor, Ludlow.

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

- James Francis Corbett, North Tonawanda, N. Y.
 Edward Merrill Creed, Rutland.
 John Francis Cronin, Bennington.
 Glenn Downing Easton, Shoreham.
- *Alexander Pesarik, Windsor.
 Roger Gibbs Ramsdell, Jr., Rockville Centre, N. Y.
 William Elwin Young, *magna cum laude*, Barre.

* As of 1940.

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

Henri John Beauchemin, Pittsfield, Mass.
 John Smalley Greene, Burlington.
 Gerald Imlah Palmer, Williamstown.

James Albert Root, Middlebury.
 Azel James Taggart, Castleton.
 Harold Strong Wilson, Bethel.

THE COLLEGE OF ARTS AND SCIENCES**BACHELORS OF SCIENCE IN CHEMISTRY**

David Vernon Collins, *magna cum laude*,
 Burlington.
 Frederic Earl Ford, Charlotte.

William Ray Lyman, *cum laude*, South
 Londonderry.

BACHELORS OF SCIENCE IN COMMERCE AND ECONOMICS

Althea Lucille Abell, Burlington.
 Jane Allen, Burlington.
 Ethel Clara Bailey, Craftsbury.
 Alfred William Burroughs, Brattleboro.
 Allan James Caldwell, *magna cum laude*,
 Burlington.
 Warren Merritt Colehamer, Newark, N. J.
 Martha Hope Crane, Burlington.
 Thomas Frank Crimmin, Jr., *cum laude*,
 Windsor.
 William Allen Daniels, Bridgeport, Conn.
 Barbara Elizabeth Evans, Essex Junction.
 Lyman Whitcomb Gallup, Saylesville, R. I.
 Richard Gerard Healy, Lynbrook, N. Y.
 Kenneth William Johnson, Winchester,
 N. H.
 Harriet Lina Kieslich, *cum laude*, Burling-
 ton.
 Olga Kish, Pittsford.

Harriet Beatrice Koble, Witherbee, N. Y.
 Raymond Francis Laramie, Fair Haven.
 Nona Agnes Lathrop, Bristol.
 Pauline Elisabeth Marshall, Burlington.
 Margaret Emma Moody, Burlington.
 Floyd Richard Olson, Burlington.
 William Sanford Preston, Jr., Burlington.
 William Irving Pye, Pittsford.
 Earl Greene Reed, Oakfield, N. Y.
 Edgar Franklin Roby, Montpelier.
 Eileen Frances Rooney, St. Albans.
 John Russell Royer, Westfield, N. J.
 Lawrence Albert Simpson, St. Albans.
 Robert Norman Snider, Boston, Mass.
 Mary Jeanette Thompson, Burlington.
 Caroline Trask, Rochester.
 Geraldine Mae Wilcox, Newport.
 Thelma Lois Wolinsky, West Rutland.
 Beatrice Zeichick, Chelsea, Mass.

BACHELORS OF SCIENCE IN EDUCATION

Jean Marjorie Aseltine, St. Albans.
 Jean Eloise Finney, Malone, N. Y.
 Philip Safford Killoran, Essex Junction.
 Donald William Maley, Great Barrington,
 Mass.
 Armstrong Maltbie, *cum laude*, Brant Lake,
 N. Y.
 Harry William Noyes, North Bennington.

George Readington Pease, Burlington.
 Floyd Charles Rising, White River Junc-
 tion.
 Norman Kenneth Strassburg, North Tona-
 wanda, N. Y.
 Francis Marshall Taylor, Jr., Brattleboro.
 Ruth Paula Winton, Flushing, L. I., N. Y.

BACHELORS OF SCIENCE

Richard Walker Amidon, Monroe, N. H.
 Bernard Benjamin Barney, *cum laude*, Ben-
 nington.
 Arnold Herman Becker, *cum laude*, Burl-
 ington.

George John Bicoulis, Fitchburg, Mass.
 Jack Bloom, Hartford, Conn.
 Mary Catherine Bodette, Vergennes.
 Rosemary Cady Brewster, Underhill.
 Barbara Lennox Butler, Rutland.

José Nemesio Cabanzo, Barre.
 Gerald Arnold Cohen, New Britain, Conn.
 Francis Milton Dellafera, Manchester,
 Conn.
 James Patrick Diforio, Mamaroneck, N. Y.
 Elizabeth Doton, Woodstock.
 Mortimer DuBoff, West Hartford, Conn.
 Stanley Franklin Dwinell, Bradford.
 Sumner Samuel Firestone, Dorchester, Mass.
 Kenneth Steele Fletcher, Jr., Chicopee,
 Mass.
 Donald Frederick Gearing, Bristol, Conn.
 Carleton Raymond Haines, Barre.
 Ethan Victor Howard, Jr., Burlington.
 Lyman Curtis Hunt, Jr., Burlington.
 Anton Jacob, Jr., Bridgeport, Conn.
 Howard Hinman Jacobs, Enosburg Falls.
 Francis Alan Kennedy, St. Albans.
 Alexander John Lapsis, Jr., New Britain,
 Conn.
 Robert Levine, Brooklyn, N. Y.

BACHELORS OF PHILOSOPHY

Pauline Adena Bailey, Essex Junction.
 Leah S. Begun, New York, N. Y.
 Jean Carol Brooks, South Burlington.
 Olive Mac Burrington, St. Johnsbury.
 Mildred Sara Cohen, Haverhill, Mass.
 Agnes Moore Conley, Brockton, Mass.
 Margaret Powers Crowley, Hastings-on-
 Hudson, N. Y.
 John Thomas Doheny, Richmond.
 Margaret Leonard Drum, Mendham, N. J.
 Angeline Ducas, Waterbury.
 Harold Allen Durfee, North Bennington.
 James Tuckerman Emott, Jr., Morristown,
 N. J.
 Jean Malot Evans, *magna cum laude*, Bur-
 lington.
 Israel Goodman, New London, Conn.
 Shirley Leighton Gray, Montclair, N. J.
 Clara Ray Griffel, New York, N. Y.
 Edward August Guilbert, Waterbury,
 Conn.
 Mary-Jane Hammond, New York, N. Y.
 † Arthur Haritos, Waterbury.

BACHELORS OF ARTS

Bert Wood Abbey, as of 1891, Shelburne.
 Martha Lillian Baker, *cum laude*, Milton.

* As of 1939.

† As of 1940.

Richard George Lynch, Burlington.
 Henry Hill McGinty, East Killingly, Conn.
 Joseph Raymond Massucco, Bellows Falls.
 Grace Meeken, Portland, Me.
 Irene Lucy Newton, *magna cum laude*,
 West Hartford.
 Henri Louis Pache, Burlington.
 Christopher George Palans, Burlington.
 Louis Fabien Pine, Burlington.
 William Arthur Pratt, Rutland.
 Ivan Booth Ross, St. Albans.
 Henry Jerome Rulfo, Barre.
 Harold John Rush, Newport.
 Beatrice Irene Shine, Wardsboro.
 James Edwin Simpson, St. Albans.
 Charles Caverly Swift, Rutland.
 * Philip Fletcher White, Craftsbury Com-
 mon.
 Arthur Dave Wolk, Rutland.
 William Harold Wright, Middletown,
 Conn.

Ruth Etta Hopkins, Lyndon Center.
 Taze Rutherford Huntley, Morrisville.
 Fleda Angie Jones, Morrisville.
 Jacob Kaplan, Burlington.
 Robert Pardon Kenney, Cranston, R. I.
 Allan Grenville Kidd, Northfield.
 Meyer Jacob Levin, Burlington.
 Jane Elizabeth Lyons, New York, N. Y.
 * Allan Dale MacDonald, Hardwick.
 George Robert McKee, Montpelier.
 Ellen Rhoane Macomber, North Troy.
 Maywood Almira Metcalf, Waterbury.
 Sara Peters, Schenectady, N. Y.
 Miriam Barger Rubin, Brockton, Mass.
 Jean Betty Saul, Ayer, Mass.
 Helen Theresa Sault, *cum laude*, Randolph.
 Doris Shirley Schlaf, Rockville, Conn.
 Dorothea Smith, Burlington.
 Jean Macmillan Stewart, Rawal Pindi,
 India.
 Donald William Thayer, Burlington.
 Edith Louise Topkins, Brooklyn, N. Y.
 Harold Irving Williams, Jr., Burlington.

Margaret Mary Beattie, *magna cum laude*,
 St. Johnsbury.

Wallace Granville Derby, as of 1891,
Burlington.

Jessie Swann, *summa cum laude*, Danvers,
Mass.

ADVANCED DEGREES

MASTERS OF ARTS

EDUCATION

Leon Exephère Hamel, *ED.B.*, Keene Normal, 1929.

Thesis: The Consolidation of High Schools as a Means of Developing a More Adequate Educational Program.

Charles Henry Welsby, *A.B.*, Williams, 1910.

Thesis: A Comparative Study of the Admission Requirements of American Colleges and Universities for the Years 1929-30 and 1938-39.

ENGLISH

Ruth Evelyn French, *PH.B.*, University of Vermont, 1927.

Thesis: John Bull, His Other Island, and Shaw's Plays.

Daniel Waite Marshall, *PH.B.*, University of Vermont, 1937.

Thesis: Henry Thoreau's Theory and Practice of Prose Composition.

Edward James O'Gara, *A.B.*, University of New Hampshire, 1926.

Thesis: The Influence of Coleridge on Emerson's Theory of Poetry.

FRENCH

Jane Elizabeth Slater, *A.B.*, University of Rochester, 1939.

Thesis: Emile Deschamps' Translations of Shakespeare, 1839-1844.

HISTORY

Elizabeth Martha Collins, *PH.B.*, University of Vermont, 1929.

Thesis: Woodrow Wilson's Leadership in Congress.

Lenore Marguerite Farnham, *A.B.*, Heidelberg, 1933.

Thesis: The Anglo-Russian Convention of 1907.

John Pershing Luidens, *A.B.*, Hope College, 1940.

Thesis: Seward and Anglo-American Relations: March 4, 1861 to November 7, 1861.

Harold William Muggleston, *A.B.*, University of New Hampshire, 1930.

Thesis: The Sentiment in the United States for and against the Retention of the Philippine Islands.

MASTERS OF SCIENCE

BIO-CHEMISTRY

John Philip Crispell, *B.S.*, Pennsylvania State College, 1939.

Thesis: Absorption and Toxicity of Sulfapyridine in Rats With and Without Glucose Supplements.

BOTANY

Russell Smith Wallin, B.S., University of Vermont, 1940.

Thesis: Rainfall in Relation to Diameter Growth in a White Pine Forest.

CHEMISTRY

Allan Rawson Williams, B.S., University of Vermont, 1940.

Thesis: Investigation Into the Action of the Amylases of Barley Malt on the Starch of Wheat Flour.

DAIRY HUSBANDRY

Clyde Newman Hall, B.S., University of Maine, 1923.

Thesis: A Study of the Ability of Dams and Proven Sires to Transmit Production Through Their Sons.

ELECTRICAL ENGINEERING

Burton Primrose Brown, Jr., B.S., University of Colorado, 1939.

Thesis: A New Principle in Television Transmitting Antenna Design.

FORESTRY

Gordon Lewis Chapman, B.S., University of Maine, 1939.

Thesis: Analysis of Competition Due to Spacing in Various Coniferous Plantations.

SOIL SCIENCE

Roy Ivan Brooks, B.S., University of Vermont, 1933.

Thesis: Borax Fixation by Soils and Organic Soil-like Materials.

John Joseph Mayernik, B.S., Rutgers, 1939.

Thesis: Soil Erosion and Water Conservation on Permanent Pastures.

ZOOLOGY

Harrison Aldrich Cooke, Jr., A.B., Dartmouth, 1937.

Thesis: The Effect of Altitude on Blood Cell Number and Hemoglobin Concentration in the Deer-Mouse.

MASTERS OF EDUCATION

Clarence Frank Amsden, B.S., Vermont, 1931.

Eugene George Burnkrant, A.B., Dartmouth, 1935.

Mary Louise Dee, A.B., Mount St. Vincent, 1935.

George Vance Drabble, A.B., Bates, 1928.

Marion Waters Fox, B.S., Glassboro State Teachers College, N. J., 1937.

Samuel Theodore Fuller, A.B., Bates, 1935.

Jay Stewart Garvin, B.A., Westminster College, 1918.

Theodore Ellsworth Hinckley, B.S., Norwich, 1934.

Harry Frederick Holder, B.P.E., Springfield, 1930.

John Newton Jamison, B.S., Grove City College, 1927.

Harry Arthur Keniston, ED.B., Vermont, 1937.

M. Olive C. Krogman, B.S., New York University, 1930.

Helen Joyce Hobbs Lyon, A.B., Colby, 1930.

Edgar August Moberg, A.B., Clark University, 1930.

Archibald Thompson Post, B.S., Vermont, 1927.

Ellery Redfield Purdy, B.S., Pennsylvania, 1921.
 Leslie Ricker Rowe, A.B., Vermont, 1926.
 Newell Dean Rowe, B.S., Vermont, 1927.
 George Henry Sole, A.B., Williams, 1931.

Harry Oliver Swett, A.B., Harvard, 1925.
 Urban Christopher Wakefield, A.B., Ohio Northern, 1931.
 John Wilson Wallace, B.A., Syracuse, 1930.

COLLEGE OF MEDICINE

DOCTORS OF MEDICINE

Clifford Clark Agnew, B.S., Brattleboro.
 Joel Allen, A.B., Burlington.
 Renwick Keese Caldwell, B.S., *cum laude*, Burlington.
 Rocco Cassone, B.S., Stamford, Conn.
 Clifford Tremain Conklin, Jr., B.S., Brandon.
 William Stephen Dempsey, A.B., *cum laude*, St. Albans.
 Gino Aldo Dente, Barre.
 Harry Cary Halsted, A.B., Nutley, N. J.
 Myron Norman King, B.S., Dorchester, Mass.
 Joyce Walter Kingsley, Jr., B.S., *cum laude*, Burlington.
 Joseph Oscar LaRiviere, B.S., Burlington.
 Harry Alton MacMillan, B.S., Plainfield.
 Photius Demetrius Mamos, B.S., Concord, N. H.
 Lyle John Monti, B.S., Barre.
 Deane Fremont Mosher, B.S., *cum laude*, Newport.

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Alexander John Lapsis, Jr.

Thesis: A Study of the Condition Existing in the Reproductive System of the Muskrat (*Ondatra zibethica*) Along the Lake Champlain Region During the Latter Part of the Trapping Season.

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Third: Kathleen LeBaron Strassburg, '41.

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Second: Taze Rutherford Huntley, '41.
Third: Julius George Cohen, '42.

KIRBY FLOWER SMITH LATIN PRIZE

Walter Harding Maurer, '43.

SPEAKER ON FOUNDER'S DAY

(May 1, 1941)

Prof. Leon W. Dean, '15, Burlington.

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(No grades below 92)

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(No grades below 82)

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 Carolyn L. Brehmer, *Sec*
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 Virginia Crocker, *HE*
 Jean M. Davison, *Cl*
 Margaret E. Delano, *SS*
 R. Fitzsimmons, *Ag*
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 E. Patricia Fowell, *LS*
 Myra D. Gray, *HE*
 Betty Hawkinson, *GS*
 C. G. Hess, *GS*
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 Ruth M. Lyon, *LS*
 G. Manheim, *PM*
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 Elizabeth A. Richards, *SS*
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 R. Marshall, *EE*
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 Mary S. Rice, *Sec*
 Barbara I. Robinson, *HE*
 W. B. Shea, Jr., *PM**
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* Less than fifteen hours.

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Class of 1944

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(No grades below B)

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This organization was formed May 1, 1920.

The object of the Council is to advance the interest, influence and efficiency of the University of Vermont; to strengthen the relations between the alumni and the University; to encourage sufficient class organization; to keep the public informed in regard to the University; to keep before the various preparatory schools of the country the advantages of the University of Vermont as an educational institution; to aid and assist in the establishment of alumni associations and promote their interests, to report from time to time to the Board of Trustees of the University any facts and recommendations by the Council deemed material or for the interests of the University; to act as a medium that may make known the ideas of the alumni to the University, and wishes of the University to the alumni; to keep in touch with the undergraduate activities and to act in an advisory capacity through the Executive Committee and office of Alumni Council to such of the undergraduates as may desire to consult it in reference to their occupations after graduation and for that purpose to keep in as close a touch as possible with the demands of the country's professional, business and industrial needs and to supervise and conduct the nomination and election of Alumni Trustees of the University of Vermont.

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- '13 Mary Jean Simpson, Burlington, Vt.
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- '95 Philip J. Ross, 120 W. 57th St., New York City.
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- '05 Fred B. Wright, 195 Broadway, New York City.
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Windsor County—Robert M. Bent, '35.

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